

THURSDAY, 22 July

TH001	INNER-SHELL IONIZATION X-RAY LASER DRIVEN BY HIGH INTENSITY LASER
1.1	K.Moribayashi,A.Sasaki,Y.Ueshima,T.Tajima
1	
TH002	ANGULAR DISTRIBUTIONS IN COMPTON SCATTERING WITH ONE AND TWO
1.1	EJECTED ELECTRONS
2	M.A.Kornberg
TH003	SINGLE IONIZATION BY COMPTON SCATTERING ON HE AND H ⁻
1.1	S.Itza-Ortiz,J.Wang,J.H.McGuire,J.Burgdörfer,A.Godunov
3	
TH004	OBSERVATION OF THE TRIPLY EXCITED DOUBLE RYDBERG STATES OF LA ATOM
1.1	X.P.Xie,W.Sun,W.Huang,X.Y.Xu
4	
TH005	THE DECAYED DYNAMIC PROCESS IN THE TRIPLY EXCITED STATES OF LA ATOM
1.1	W.Sun,X.P.Xie,W.Huang,P.Xue,X.Y.Xu
5	
TH006	PHOTON W-VALUES FOR AR IN THE SOFT X-RAY REGION
1.1	N.Saito,I.H.Suzuki
6	
TH007	XENON 4D-5P EMISSION UPON IONIZATION OF THE 3D SUBSHELL
1.1	A.G.Kochur,Ye.B.Mitkina
7	
TH008	PRODUCTION OF THE MULTIPLY CHARGED IONS THE PROCESS OF THE
1.1	CASCADING DECAY OF RESONANT AR1S ¹ 4P ¹ STATE
8	A.G.Kochur,Ye.B.Mitkina,A.L.Dudenko
TH009	MULTI-STEP POST-COLLISION INTERACTION EFFECTS IN KR K-SHELL
1.1	PHOTOIONIZATION
9	T.Hayaishi,Y.Fujita,M.Izumisawa,T.Tanaka,E.Murakami,E.Shigemasa,A.Yagishita,Y.Morioka
TH010	ATOMIC VS. SOLID STATE EFFECTS IN CCC AND CCV AUGER TRANSITIONS OF 4D
1.1	METALS
10	W.Drube,T.M.Grehk,J.E.Hansen,T.Aberg
TH011	RADIATIVE DECAY PATHWAYS OF HE(¹ P ⁰) DOUBLY-EXCITED STATES
1.1	M.K.Odling-Smee,E.Sokell,M.A.MacDonald,P.Hammond
11	
TH012	PHOTOIONIZATION SUPPRESSION BY CONTINUUM COHERENCE
1.1	L.P.Yatsenko,T.Halfmann,B.W.Shore,K.Bergmann
12	
TH013	STRONG ELECTRIC-FIELD EFFECTS ON THE STRUCTURE PROFILES OF DOUBLY
1.1	EXCITED RESONANCES IN HE GROUND STATE PHOTOIONIZATION
13	T.K.Fang,Y.K.Ho
TH014	DOUBLY EXCITED ¹ P ⁰ RESONANCES IN HE BETWEEN THE N=2 AND 3 HE ⁺
1.1	THRESHOLD
14	M.-K.Chen
TH015	NEAR THRESHOLD PHOTO IONIZATION
1.1	S.N.Tiwary
15	
TH016	SEQUENCES OF THRESHOLD RESONANCES, A CONSIDERATION OF THE THRESHOLD
3.1	SPLITTING
178	T.T.Gien
TH017	R-MATRIX CALCULATION OF ELASTIC ELECTRON-MAGNESIUM SCATTERING
3.1	V.Geden,V.Lengyel,O.Zatsarinny,C.Kocher
179	

TH018	LOW-ENERGY ELASTIC SCATTERING OF ELECTRONS FROM ALKALI ATOMS
3.1	W.Ji,R.P.McEachran,A.D.Stauffer
180	
TH019	CONTRIBUTION OF THE BREIT INTERACTION TO ELECTRON SCATTERING FROM ATOMS
3.1	A.Demisie,J.W.Darewych,R.P.McEachran,A.D.Stauffer
181	
TH020	LOW-ENERGY ELECTRON ELASTIC BACKSCATTERING BY CA,SR,BA ATOMS IN THE ENERGY-DEPENDENT RANGE OF ANGLES
3.1	E.Yu.Remeta,Yu.Yu.Bilak
182	
TH021	DIFFERENTIAL CROSS SECTIONS FOR ELECTRON ELASTIC SCATTERING BY ZINC ATOM
3.1	R.Panajotovic,V.Pejcev,B.Marinkovic
183	
TH022	ELECTRON SCATTERING BY NOBLE GASES (AR, KR AND XE) AT INTERMEDIATE AND HIGH ENERGIES, 30-10000 EV
3.4	G.García,A. Willart,F. Blanco
259	
TH023	ELECTRON COLLISION WITH ALUMINUM ATOMS AND ELECTRON IMPACT BROADENING OF ALUMINUM LINES
3.4	Z.Zhao,J. Yuan
260	
TH024	FROM WANNIER DOUBLY EXCITED STATES TO THRESHOLD IONISATION
3.4	A.M.Loughan,D.S.F.Crothers
261	
TH025	EVALUATION OF A CLASS OF INTEGRALS IN IONIZATION PROBLEMS
3.4	K.K.Sud,A.S.Bhullar
262	
TH026	EXACT QUANTUM FORM FACTOR FOR PARABOLIC RYDBERG STATES
3.4	D.P.Dewangan
263	
TH027	RESONANCES IN LOW ENERGY ELECTRON SCATTERING FROM MAGNESIUM AND CADMIUM
3.4	J.P.Sullivan,S.J.Buckman,D.S.Newman,R.P.McEachran,P.D.Burrow,K.Bartschat
264	
TH028	SOLUTION OF CLOSE-COUPPLING CONTINUUM STATE PROBLEMS WITH NON-ORTHOGONAL ORBITALS: APPLICATION TO LI PHOTOIONIZATION
3.4	O.Zatsarinny,C.F.Fischer
265	
TH029	A MONTE CARLO STUDY OF THE ELECTRON CLOUD PRODUCED IN XENON BY ELECTRONS WITH ENERGIES UP TO 200 KEV
3.4	P.J.B.M.Rachinhas,T.H.V.T.Dias,F.P.Santos,C.A.N.Conde,A.D.Stauffer
266	
TH030	AN UNIVERSE SELFCONSISTENT APPROACH TO POLARIZATION RADIATION PHENOMENA IN COLLISIONS OF ELECTRONS WITH HEAVY IONS
3.4	V.Lisitsa,R.Pratt
267	
TH031	DIELECTRONIC CAPTURE AT RYDBERG ATOMIC STATES AND PROBLEM OF LAMB SHIFT DETERMINATION FOR LI-LIKE IONS
3.4	L.Bureyeva
268	
TH032	IMPROVED NON-EMPIRICAL ABSORPTION POTENTIAL FOR ELECTRON SCATTERING AT INTERMEDIATE AND HIGH ENERGIES: 30-10000 EV
3.4	F.Blanco,G.García
269	
TH033	THE ENERGIES OF AUTODETACHED STATES OF HYDROGEN NEGATIVE ION AS CALCULATED IN TWO-DIMENSIONAL BASIS
3.4	M.Haysak,M.Dovhanich,V.Lengyel,V.Onysko
270	
TH034	KINEMATIC PROPERTIES OF THE GENERALIZED OSCILLATOR STRENGTH: REACHING THE LASSETTRE LIMIT FROM EXCITATION THRESHOLD
3.4	N.Avdonina,A.Z.Msezane
271	

TH035	MOLECULELIKE MODES OF INTRASHELL TRIPLY EXCITED STATES
3.4	T.Morishita,Y.Li,C.D.Lin
272	
TH036	COMPLETE CALCULATION FOR ELECTRONS COLLIDING WITH HYDROGEN IN THE S-WAVE MODEL
3.4	S.Jones,A.T.Stelbovics
273	
TH037	MULTIELECTRON CORRELATIONS IN THE GENERALIZED OSCILLATOR STRENGTHS
3.4	M.Ya.Amusia,Z.Chen,L.V.Chernysheva,A.Z.Msezane
274	
TH038	RESONANT FEATURES IN LOW-ENERGY ELECTRON SCATTERING FROM OZONE
4.1	R.Curik,F.A.Gianturco,N.Sanna
275	
TH039	A STUDY OF RESONANCE STRUCTURES IN ELASTIC ELECTRON SCATTERING BY MOLECULES IN THE BACKWARD DIRECTION
4.1	B.Mielewska,G.C.King,M.Zubek
276	
TH040	LOW ENERGY ELECTRON SCATTERING FROM NITROUS OXIDE
4.1	R.J.Gulley,S.J.Buckman
277	
TH041	TOTAL CROSS SECTIONS OF ELECTRON AND POSITRON SCATTERING FROM CF ₃ I
4.1	O.Sueoka,A.Hamada,M.Kimura
278	
TH042	TOTAL CROSS SECTIONS OF ELECTRON AND POSITRON COLLISIONS WITH C ₃ F ₈ AND C ₃ H ₈ MOLECULES, AND DIFFERENTIAL ELASTIC AND VIBRATIONAL EXCITATION CROSS SECTIONS BY ELECTRON IMPACT
4.1	H.Tanaka,Y.Tachibana,M.Kitajima,O.Sueoka,A.Hamada,M.Kimura
279	
TH043	TOTAL CROSS SECTION STUDIES FOR E ⁻ AND E ⁺ SCATTERING FROM OCS MOLECULES: A COMPARATIVE STUDY WITH CO ₂
4.1	O.Sueoka,A.Hamada,H.Tanaka,M.Kitajima,M.Kimura
280	
TH044	TOTAL CROSS SECTION STUDIES FOR E ⁺ AND E ⁻ SCATTERING FROM CHF ₃ MOLECULES: A COMPARATIVE STUDY WITH CH ₄ AND CF ₄
4.1	O.Sueoka,A.Hamada,M.Kimura
281	
TH045	ELASTIC ELECTRON DCATTERING BY SMALL HYDROFLUORCARBON MOLECULES IN THE INTERMEDIATE ENERGY RANGE
4.1	M.G.P.Homem,I.Iga
282	
TH046	ELASTIC ELECTRON SCATTERING BY CO ₂ AND CH ₄ IN THE INTERMEDIATE ENERGY RANGE
4.1	I.Iga,M.G.P.Homem,L.E.Machado,L.M.Brescansin
283	
TH047	FULL SECOND-ORDER DISTORTED-WAVE STUDY FOR ELASTIC ELECTRON SCATTERING BY HYDROGEN MOLECULE
4.1	A.M.Machado,M-T.Lee
284	
TH048	APPLICATION OF THE METHOD OF CONTINUED FRACTIONS FOR ELECTRON SCATTERING BY NONLINEAR MOLECULES
4.1	E.M.S.Ribeiro,L.E.Machado,M-T.Lee
285	
TH049	ELASTIC DIFFERENTIAL CROSS SECTIONS OF CO ₂ , OCS, AND CS ₂ BY ELECTRON IMPACT
4.1	Y.Sakamoto,S.Watanabe,M.Kitajima,H.Tanaka,M.Kimura
286	
TH050	LOW-ENERGY ELECTRON SCATTERING FROM ETHYLENE AND TETRAFLUOROETHYLENE
4.1	T.Suzuki,Y.Sakamoto,M.Kitajima,H.Tanaka,M.Kimura
287	
TH051	FRAGMENT ION-PHOTON COINCIDENCE (FIPCO) STUDY OF DISSOCIATIVE IONIZATION ACCOMPANYING LIGHT EMISSION BY ELECTRON IMPACT ON ETHYLENE AND ACETYLENE
4.5	K.Furuya,K.Maruyama,E.Koto,T.Ueda,A.Matsuo,T.Ogawa
332	

TH052 4.5 333	ABSOLUTE EMISSION CROSS SECTION OF THE PASCHEN- α LINE AND PRODUCTION DYNAMICS OF THE 4F STATE OF THE EXCITED HYDROGEN ATOM IN E-H ₂ COLLISIONS N.Yonekura,K.Furuya,K.Nakajima,T.Ogawa
TH053 4.5 334	DISSOCIATION OF SO ₂ INTO METASTABLE FRAGMENTS FOLLOWING ELECTRON IMPACT W.Kedzierski,C.Malone,J.W.McConkey
TH054 4.5 335	KINETIC ENERGY MEASUREMENT OF H ⁺ FROM CH ₄ BY TIME-LAG TIME-OF-FLIGHT ANALYSIS M.K.Kawada,Y.Sakai
TH055 4.5 336	DISSOCIATIVE IONIZATION OF H ₂ BY ELECTRON IMPACT Y.Sakai,M.K.Kawada
TH056 5.1 337	INELASTIC SCATTERING OF ELECTRONS FROM SINGLY-IONIZED OXYGEN L.M.Richardson,S.S.Tayal
TH057 5.1 338	ELECTRON IMPACT EXCITATION OF FINE-STRUCTURE LEVELS IN S ³⁺ S.S.Tayal
TH058 5.1 339	ELECTRON IMPACT EXCITATION OF FE XV K.M.Aggarwal,N.C.Deb,A.Z.Msezane
TH059 5.1 340	ELECTRON IMPACT EXCITATION OF FE XXI K.M.Aggarwal,F.P.Keenan
TH060 5.1 341	ELECTRON IMPACT EXCITATION OF GD XXXVII K.M.Aggarwal,P.H.Norrington,K.L.Bell,F.P.Keenan,G.J.Pert,S.J.Rose
TH061 5.1 342	ELECTRON-IMPACT EXCITATION OF THE CD ⁺ ION RESONANCE LINES A.N.Gomonai,A.I.Imre,V.S.Vukstich,A.N.Nemeth
TH062 5.1 343	RELATIVISTIC STUDY OF ELECTRON-IMPACT EXCITATION OF HELIUM-LIKE IONS E.Kimura,S.Nakazaki,K.A.Berrington,P.H.Norrington
TH063 5.1 344	ELECTRON-IMPACT EXCITATION OF IONS IN TRIPLE COLLISIONS A.Ohsaki,S.Nakazaki,S.Uramoto,K.Takayanagi
TH064 5.1 345	ANALYTIC EXPRESSIONS OF RADIAL INTEGRAL ON MULTIPLE TRANSITIONS FOR COULOMB BORN APPROXIMATION A.Ohsaki,T.Kai,E.Kimura,S.Nakazaki,
TH065 5.1 346	ELECTRON IMPACT EXCITATION OF THE 5S-5P TRANSITION IN CD II O.I.Zatsarinny,L.A.Bandurina
TH066 5.4 392	H-ATOM YIELD FROM THE DISSOCIATIVE RECOMBINATION OF H ₃ ⁺ IONS WITH THERMAL ELECTRONS M.Skrzypkowski,M.F.Golde,R.Johnsen
TH067 5.4 393	EVIDENCE OF SUPERELASTIC ELECTRON COLLISIONS FROM H ₂ ⁺ STUDIED BY DISSOCIATIVE RECOMBINATION IN A COOLER RING T.Tanabe,H.Takagi,I.Katayama,K.Chida,T.Watanabe,Y.Arakaki,Y.Haruyama,M.Saito,I.Nomura,T.Honma,K.Noda,K.Hosono

TH068 5.4 394	BRANCHING RATIOS IN DISSOCIATIVE RECOMBINATION OF $C_2H_2^+$ MOLECULAR ION A.M.Derkatch,L.Vikor,A.Al-Khalili,A.Neau,W.Shi,H.Danared,M.af Ugglas,M.Larsson
TH069 5.4 395	DISSOCIATIVE RECOMBINATION AND EXCITATION OF O_2^+ : CROSS SECTIONS AND PRODUCT YIELDS R.Peverall,S.Rosén,J.R.Peterson,M.Larsson,A.Al-Khalili,L.Vikor,J.Semaniak,R.Bobbenkamp,A.Le Padellec,H.Danared,M.af Ugglas,W.J. van der Zande
TH070 5.4 396	RESONANT ION PAIR FORMATION (RIP) IN ELECTRON-MOLECULAR ION COLLISIONS W.Zong,G.Dunn,N.Djuric,M.Larsson,A.Al-Khalili,A.Neau,A.M.Derkatch,L.Vikor,W.Shi,A.Le Padellec,S.Rosén,H.Danared,M.af Ugglas
TH071 5.4 397	DISSOCIATIVE RECOMBINATION OF D_3O^+ : ABSOLUTE CROSS SECTION AND BRANCHING RATIOS A.Neau,A.M.Derkach,L.Vikor,A.Al Khalili,W.Chi,H.Danared,M.af Ugglas,M.Larsson
TH072 5.4 398	THRESHOLD EFFECTS IN THE DISSOCIATIVE RECOMBINATION CROSS SECTION OF HD^+ M.Lange,J.Levin,U.Hechtfisher,L.Knoll,D.Schwalm,R.Wester,A.Wolf,X.Urbain,D.Zajfman
TH073 5.4 399	THREE-BODY BREAKUP DYNAMICS IN DISSOCIATIVE RECOMBINATION S.Datz,S.Rosén,A.Al-Khalili,A.Derkatch,W.Shi,R.Thomas,L.Vikor,R.Peverall,M.Larsson,W.van der Zande
TH074 7.1 454	PROCESSES INVOLVING MULTIPLE IONIZATION IN COLLISIONS OF FAST H^+ AND He^{2+} IONS WITH PB ATOMS P.C.E.McCartney,M.B.Shah,J.Geddes,H.B.Gilbody
TH075 7.1 455	FREE-FREE TRANSITIONS OF AN ATOMIC ELECTRON INDUCED BY A PROJECTILE ION Sh.D.Kunikeev
TH076 7.1 456	A HIGH RESOLUTION STUDY OF K-LL AUGER SPECTRA OF CARBON DIOXIDE A.Hiltunen,Gy.Vikor,S.Ricz,B.Sulik,S.Aksela,Á.Kövér
TH077 7.1 457	ELECTRON EMISSION FROM MULTIELECTRONIC ATOMS BY ION IMPACT D.M.McSherry,S.F.C.O'Rourke,D.S.F.Crothers
TH078 7.1 458	LOCAL SADDLES AND MAXIMA IN DOUBLE DIFFERENTIAL CROSS SECTIONS IN ION-ATOM/MOLECULE COLLISIONS B.S.Nesbitt,M.B.Shah,S.F.C.O'Rourke,D.S.F.Crothers,J. Ceddes
TH079 7.1 459	SHAKEOVER PROBABILITY FOR ELECTRON CAPTURE C.Gonzalez,A.Godunov,J.H.McGuire
TH080 7.1 460	THE AMPLITUDE OF TRANSFER-IONIZATION IN FAST ATOMIC COLLISIONS S.Tolmanov,A.Godunov,J.H.McGuire
TH081 7.1 461	ELECTRON DETACHMENT PROCESSES OF H^- IONS IN COLLISIONS WITH NEUTRAL TARGETS T.W.Imai,H.Tawara,P Fainstein,R.D.Rivarola
TH082 7.1 462	ELECTRON ENERGY SPECTRA AT MULTIPLE IONIZATION OF ARGON ATOMS BY 1 MEV PROTONS B.Fastrup,E.Horsdal-Pedersen,V.V.Afrosimov,A.A.Basalaev,M.N.Panov
TH083 7.1 463	A SCALING LAW FOR IONIZATION OF RARE GASES IN FAST FULLY STRIPPED ION IMPACT T.Matsuo,T.Kohno,H.Sugawara,T.Tonuma,H.Tawara

TH084 7.1 464	CALCULATION OF SADDLE POINT ELECTRONS BY USE OF EXPLICIT ELECTRONIC TRANSLATION FACTORS IN ION-ATOM COLLISION J.Anton,K.Schulze,D.Geschke,W.-D.Sepp,S.Fritzsche,B.Fricke
TH085 7.1 465	K-,L-,M-IONIZATION OF CU AND GE IN COLLISIONS WITH 0.25-2.5 MEV/U ³² S IONS C.Ciortea,D.Dumitriu,A.Enulescu,D.Fluerasu,I.Piticu,Z.Szilagy
TH086 7.1 466	THEORY OF ELECTRON CAPTURE TO THE CONTINUUM FOR NON-0° PROJECTILE SCATTERING J.Fiol,V.D.Rodriguez,R.O.Barrachina
TH087 7.1 467	ELECTRON EMISSION AT ZERO DEGREES IN COLLISIONS OF HE WITH 20 AND 80KEV H+ IONS C.McGrath,B.S.Nesbitt,P.C.E.McCartney,M.B.Shah,S.F.C.O'Rourke,J.Geddes,D.S.F.Crothers,C.Illescas,A.Riera,H.B.Gilbody
TH088 7.1 468	THRESHOLD EFFECTS IN THREE-BODY KINEMATICS J.Fiol,R.O.Barrachina,V.D.Rodriguez
TH089 7.6 519	INITIAL M-DEPENDENCE OF CAPTURE AND IONIZATION CROSS SECTIONS IN ION-RYDBERG ATOM COLLISIONS A.N.Perumal,D.N.Tripathi
TH090 7.6 520	UNEXPECTED DOUBLE PEAK STRUCTURE IN THE FINAL N-DISTRIBUTIONS OF ION-RYDBERG ATOM COLLISIONS A.N.Perumal,D.N.Tripathi
TH091 7.6 521	CROSS SECTIONS FOR CHARGE TRANSFER REACTIONS IN H+O+ AND IN H++O COLLISIONS BELOW 10 EV I.K.Bronic,M.Kimura,P.C.Stancil,J-p.Gu,G.Hirsch,R.Buenker
TH092 7.6 522	CHARGE TRANSFER CROSS SECTION OF GADOLINIUM K.Ogura,T.Shibata
TH093 7.6 523	CHARGE TRANSFER CROSS SECTIONS FOR DYSPROSIUM AND CERIUM T.Shibata,K.Tamura,H.Adachi
TH094 7.6 524	CHARGE TRANSFER BETWEEN A LASER-COOLED ION AND A THERMAL ATOM IN A RADIO-FREQUENCY TRAP T.Hasegawa,T.Shimizu
TH095 7.6 525	A PHASE-SENSITIVE STUDY OF H++NA(3P)→H(2P)+NA+ CHARGE EXCHANGE Z.Roller-Lutz,Y.Wang,H.O.Lutz,S.E.Nielsen,A.Dubois
TH096 7.6 526	CHARGE TRANSFER IN VERY SLOW H++D(1S) HALF COLLISIONS E.Wells,I.Ben-Itzhak,K.D.Carnes,B.D.Esry
TH097 7.6 527	A COLTRIMS SPECTROMETER WITH LASER COOLED TARGET: ELECTRON TRANSFER IN LI++NA → LI+NA+ COLLISIONS M.vanderPoel,M-A.Gearba,C.V.Nielsen,J.W.Thomsen,N.Andersen,V.Mergel,R.Dörner,H.Schmidt-Böcking
TH098 7.6 528	COUPLED-CHANNEL EIKONAL APPROACH TO ELECTRON CAPTURE N.Toshima,T.Nakagawa,K.Hino
TH099 7.6 529	STUDY OF THE HIGH ORDER TERMS OF THE BORN SERIES: THE B1B-CDW APPROXIMATION FOR ELECTRON CAPTURE S.E.Corchs,O.A.Fojón,R.D.Rivarola

TH100 7.6 530	SCALING RULE FOR K-SHELL CAPTURE BY H ⁺ AND HE ²⁺ FROM ATOMS C.D.Bojorge,M.S.Gravielle
TH101 7.6 531	CHARGE TRANSFER IN PROTON-LITHIUM COLLISIONS S.Tripathi
TH102 7.7 532	RESONANCES IN ELECTRON CAPTURE BY HIGHLY CHARGED IONS: A NEW METHOD BY USING QUANTUM-MECHANICAL WAVE-PACKET MODEL N.Suzuki,N.Shimakura,H.Kono
TH103 7.7 533	THE ELECTRON CAPTURE PROCESSES IN COLLISIONS WITH HE ATOMS AND BE ^{Q+} (Q=2,3,4) IONS AT LOW TO INTERMEDIATE COLLISION ENERGIES S.Suzuki,N.Shimakura,T.Shirai
TH104 7.7 534	ELECTRON-CAPTURED AND TRANSFER-EXCITATION PROCESSES IN SLOW COLLISIONS OF C ⁶⁺ IONS WITH HE ATOMS Y.Sakurai,N.Shimakura
TH105 7.7 535	EMISSION LINE POLARISATION DEGREES AND NLM _L -DISTRIBUTIONS PRODUCED BY STATE-SELECTIVE ONE-ELECTRON CAPTURE IN SLOW KR ⁸⁺ - LI(2S) COLLISIONS E.Jacquet,H.Kucal,J.Pascale,V.Bazin,P.Boduch,C.Laulhé,D.Lecler,M.Chantepie
TH106 7.7 536	CHARGE TRANSFER CROSS SECTION OF F ²⁺ IONS COLLIDING WITH HE ATOMS AT VERY LOW KEV ENERGIES M.Kimura,J.P.Gu,G.Hirsch,R.J.Buenker,C.M.Dutta,P.Nordlander
TH107 7.7 537	THE ANGULAR DEPENDENCE OF THE SCATTERING INTENSITY IN DOUBLE ELECTRON CAPTURE OF C ⁴⁺ - HE AT THE COLLISIONAL ENERGY OF 116.8 EV/Q M.Kitajima,Y.Nakai,Y.Kanai,M.Hoshino,Y.Yamazaki,Y.Itoh
TH108 7.7 538	DOUBLE ELECTRON CAPTURE VS. TARGET EXCITATION IN SLOW HE ²⁺ +HE COLLISIONS B.Nyström,T.Kambara,Y.Kanai,Y.Nakai
TH109 7.7 539	ELECTRON CAPTURE IN COLLISIONS OF SI ⁴⁺ IONS WITH HE ATOMS AT LOW-TO-INTERMEDIATE ENERGIES R.Suzuki,A.Watanabe,H.Sato,M.Kimura,J.P.Gu,G.Hirsch,R.J.Buenker
TH110 7.7 540	CHARGE TRANSFER PROCESSES IN COLLISIONS OF AL ²⁺ IONS WITH HE ATOMS AT LOW ENERGIES A.Watanabe,H.Sato,R.Suzuki,M.Kimura,J.P.Gu,G.Hirsch,R.J.Buenker
TH111 7.7 541	STATE SELECTIVE ELECTRON CAPTURE IN SLOW COLLISIONS OF STATE PREPARED C ²⁺ IONS IN ATOMIC HYDROGEN D.Voulot,R.W.McCullough,D.R.Gillen,W.R.Thompson,H.B.Gilbody,A.Macias,L.Errea,L.Méndez,A.Riera
TH112 8.1 576	AB INITIO EXCITATION CROSS SECTIONS FOR LOW-ENERGY H+NA,HE COLLISIONS A.K.Belyaev,D.Egorova,J.Grosser,T.Menzel
TH113 8.1 577	QUANTUM MECHANICAL DEPOPULATION CROSS SECTIONS FOR LI(7S)+HE AT THERMAL ENERGIES B.C.Saha,A.Kumar
TH114 8.1 578	OPTICAL STUDY ON EXCITATION TRANSFER FROM HE(2 ³ S,2 ¹ S) TO NE IN A HELIUM FLOWING AFTERGLOW M.Tsuji,M.Hisano,Y.Nishimura
TH115 8.1 579	EXCITATION OF ALLOWED TRANSITIONS IN ION-ION COLLISIONS M.McKeown,R.H.G.Reid

TH116 8.1 580	VARIATIONAL APPROACH TO EXCITATION IN P+LI ²⁺ COLLISIONS AT INTERMEDIATE IMPACT VELOCITIES M.Bouamoud,B.Lasri
TH117 8.2 581	IONIZATION IN PROTON-HE ⁺ (1S,2S,OR 3S)-ION COLLISIONS T.G.Winter
TH118 8.2 582	ABSOLUTE CROSS SECTIONS FOR PENNING AND ASSOCIATIVE IONIZATION OF CA AND SR STOMS IN THERMAL COLLISIONS WITH STATE-SELECTED METASTABLE RARE GAS ATOMS A.J.Yencha,T.Roth,M.Reichert,M.W.Ruf,H.Hotop
TH119 8.2 583	ASSOCIATIVE IONISATION IN COLLISIONS OF C ⁺ WITH D ⁻ A.Naji,K.Olamba,J.P.Chenu,S.Szucs,P.Defrance,F.Brouillard
TH120 8.2 584	EXACT ELECTRON SPECTRA IN COLLISIONS OF TWO ZERO-RANGE POTENTIALS WITH NON-ZERO IMPACT PARAMETERS S.Yu.Ovchinnikov,D.B.Khreibtukov,J.H.Macek
TH121 9.2 617	RESONANT CHARGE TRANSFER CROSS SECTIONS OF ATOMIC AND POLYATOMIC IONIC SPECIES FROM MOBILITY DATA E.Basurto,J.de Urquijo,I.Alvarez,C.Cisneros
TH122 9.2 618	ELECTRONIC-VIBRATIONAL STATE RESOLVED SINGLE ELECTRON CAPTURE IN COLLISIONS OF N ²⁺ AND O ²⁺ (E≤1KEV) WITH H ₂ , N ₂ , O ₂ AND CO R.Wörgötter-Plunger,J.-P.Klein,L.Mrazek,M.Albu,F.Aumayr,HP.Winter
TH123 9.2 619	FORMATION OF NA ₃ ⁺ BY ASSOCIATIVE IONIZATION IN COLLISIONS OF NA* AND NA ₂ (V ^π) A.Ekers,O.Kaufmann,M.Keil,K.Bergmann
TH124 9.2 620	THEORETICAL LOW-ENERGY CROSS-SECTIONS FOR BE ⁴⁺ /B ⁵⁺ -H ₂ COLLISIONS A.Kumar,B.C.Saha,C.A.Weatherford
TH125 9.2 621	ENERGY AND ANGULAR DISTRIBUTION OF SECONDARY ELECTRONS PRODUCED BY 6MEV/N HE ²⁺ ON WATER VAPOR D.Ohsawa,Y.Sato,Y.Honma,A.Higashi,Y.Fujita,F.Soga
TH126 9.2 622	IMPORTANCE OF THE EXISTENCE OF NEAR-RESONANT STATE IN ELECTRON TRANSFER S.Hayakawa,K.Harada,K.Arakawa,N.Morishita
TH127 9.2 623	CHARGE TRANSFER OF GROUND STATE HE ⁺ IONS IN COLLISIONS WITH H ₂ , N ₂ , AND VARIOUS CARBON-CONTAINING MOLECULES IN KEV ENERGY REGION Y.Nakai,T.Kusakabe,H.Tawara,M.Sasano
TH128 9.2 624	SINGLE- AND DOUBLE-CHARGE TRANSFER BY HE ²⁺ IONS IN COLLISIONS WITH N ₂ , O ₂ , CO AND CO ₂ MOLECULES IN KEV ENERGY REGION T.Kusakabe,Y.Nakai,H.Tawara,M.Sasano
TH129 9.2 625	ELECTRON CAPTURE OF HE ²⁺ IONS FROM ATOMIC AND MOLECULAR HYDROGEN H.F.Busnengo,S.E.Corchs,R.D.Rivarola,M.M.Sant'Anna,W.S.Melo,A.C.F.Santos,G.M.Sigaud,E.C.Montenegro,W.E.Meyerhof,M.B.Shah,L.Gulyás
TH130 9.2 626	FORMATION OF LONG LIVED CH _N ²⁺ AND CD _N ²⁺ DICATIONS Y.Levy,A.Bar-David,I.Ben-Itzhak,I.Gertner,B.Rosner
TH131 12.1 673	MULTIFRAGMENTATION OF C _N ⁺ CLUSTERS FOLLOWING ELECTRONIC EXCITATION INDUCED BY HIGH VELOCITY ATOMIC IMPACT R.Fosse,M.Chabot,K.Wohrer,D.Gardés,C.Champion

TH132 12.1 674	DIFRACTION OF FAST ELECTRONS ON THE FULLERENE C ₆₀ MOLECULE L.G.Gerchikov,P.V.Efimov,V.M.Mikushkin,A.V.Solov'yov
TH133 12.1 675	FRAGMENTATION OF THE FULLERENE IONS C ₆₀ ^{Q+} (Q=1..3) BY ELECTRON IMPACT D.Hathiramani,K.Aichele,W.Arnold,E.Salzborn
TH134 12.1 676	C ₆₀ FRAGMENTATION BY HE ⁺ AND HE ²⁺ : ELECTRONIC VERSUS VIBRATIONAL EXCITATION T.Schlathölter,O.Hadjar,R.Hoekstra,R.Morgenstern
TH135 12.1 677	ANORMALOUSLY ENHANCED SCREENING POTENTIAL OBSERVED IN COLLISIONS OF NOBLE GAS IONS ON CARBON ATOMS IN C ₆₀ I.Arai,T.Miura,M.Imanaka,H.Sasaki,S.Tomita,S.M.Lee
TH136 12.1 678	MULTIFRAGMENTATION OF C ₆₀ IN CHARGE-CHANGING COLLISIONS OF SI ^{Q+} IONS A.Itoh,H.Tsuchida,K.Miyabe,T.Majima,M.Imai,N.Imanishi
TH137 12.1 679	A STRONG CORRELATION BETWEEN MULTIFRAGMENTATION AND MULTIPLE IONIZATION OF C ₆₀ BY 2 MEV LITHIUM PROJECTILES A.Itoh,H.Tsuchida,T.Majima,M.Imai,N.Imanishi
TH138 12.1 680	QUASI-EQUILIBRIUM CHARGE STATE DISTRIBUTION OF FAST LI PROJECTILES PASSING THROUGH C ₆₀ MOLECULES A.Itoh,H.Tsuchida,T.Majima,M.Imai,N.Imanishi
TH139 12.1 681	STOPPING POWER DEPENDENCE OF FRAGMENT PATTERNS OF C ₆₀ INDUCED BY FAST ION COLLISIONS H.Tsuchida,A.Itoh,K.Miyabe,Y.Bitoh,M.Imai,N.Imanishi
TH140 12.1 682	ANGULAR SCATTERING, Q-VALUES AND FRAGMENTATION IN SLOW AR ^{Q+} -C ₆₀ COLLISIONS H.Cederquist,A.Fardi,K.Haghighat,B.Huber,P.Hvelpund,A.Langereis,M.O.Larsson,H.Lebius,H.T.Schmidt,S.H.Schwartz
TH141 12.1 683	SEQUENTIAL FRAGMENTATION OF C ₆₀ ⁵⁺ ION PRODUCED IN AR ⁸⁺ -C ₆₀ COLLISIONS L.Chen,R.Brédry,J.Bernard,A.Denis,S.Martin,J.Désésquelles
TH142 12.1 684	ATOM-LIKE, SURFACE-LIKE AND SOLID-LIKE INTERACTIONS IN XE ³⁰⁺ -C ₆₀ COLLISION S.Martin,L.Chen,R.Brédry,J.Bernard,A.Denis,J.Désésquelles
TH143 12.1 685	TIME-OF-FLIGHT PROFILE OF FULLERENE-LIKE FRAGMENT IONS IN FAST HE ²⁺ -C ₆₀ COLLISION Y.Nakai,T.Kambara,A.Itoh,H.Tsuchida,Y.Yamazaki
TH144 12.1 686	ASYMMETRIC FISSION OF MULTIPLY CHARGED C ₆₀ ION BY FAST C ⁶⁺ IMPACT Y.Nakai,T.Kambara,A.Itoh,H.Tsuchida,Y.Yamazaki

FRIDAY, 23 July

- FR001 TRIPLE PHOTOIONIZATION OF LITHIUM: A FUNDAMENTAL PROCESS
1.1 R. Wehlitz, M.-T. Huang, B.D. DePaola, J.C. Levin, I.A. Sellin, T. Nagata, J.W. Cooper, Y. Azuma
16
-
- FR002 HIGH SPECTRAL-RESOLUTION PHOTOIONIZATION STUDIES OF LITHIUM ATOMS BY
1.1 HIGH RESOLUTION ELECTRON SPECTROSCOPY
17 W.T. Cheng, D. Cubaynes, E. Kukk, J. Bozek, G. Snell, S. Diehl, J.-M. Bizau, N. Berrah, F.J. Wuilleumier
-
- FR003 NEW THEORETICAL AND EXPERIMENTAL RESULTS FOR AUTOIONIZATION OF THE
1.1 LOWEST DOUBLY HOLLOW LITHIUM STATE INTO SEVERAL CONTINUA OF THE
18 DOUBLY-EXCITED Li^+ ION
H.L. Zhou, S.T. Manson, K.A. Berrington, L. VoKy, S. Diehl, D. Cubaynes, J.-M. Bizau, J.-P. Mosnier,
E.T. Kennedy, F.J. Wuilleumier
-
- FR004 DOUBLE PHOTOEXCITATION FROM LASER EXCITED $Li(1S^2 2P)$
1.1 M.-T. Huang, R. Wehlitz, S. Hasegawa, K. Ohmori, I.A. Sellin, Y. Azuma
19
-
- FR005 CALCULATION OF CORE-EXCITED STATES IN Li
1.1 G. Verbockhaven, J.E. Hansen
20
-
- FR006 EFFECTIVE SOMMERFELD PARAMETERS IN DOUBLE PHOTOIONIZATION
1.1 M.A. Kornberg, V.D. Rodriguez
21
-
- FR007 DOUBLE PHOTOIONIZATION OF HELIUM: THE HYPERSPHERICAL R-MATRIX
1.1 METHOD WITH SEMICLASSICAL OUTGOING WAVES
22 L. Malegat, A. Kazansky, P. Selles
-
- FR008 DOUBLE PHOTOIONISATION OF HELIUM: THE TDCS AT 80 EV EXCESS ENERGY
1.1 L. Avaldi, G. Battera, R. Camilloni, M. Coreno, M. DeSimone, K.C. Prince, G. Turri, M. Zitnik,
23 G. Stefani
-
- FR009 ANGULAR CORRELATION IN THE TWO-ELECTRON CONTINUUM OF THE HELIUM
1.1 DOUBLE PHOTOIONIZATION
24 S. Cvejanovic, J.P. Wightman, T.J. Reddish, F. Maulbetsch, M.A. MacDonald, A.S. Kheifets, I. Bray
-
- FR010 LINEAR AND CIRCULAR DICHROISM IN THE DOUBLE PHOTOIONIZATION OF
1.1 HELIUM
25 K. Soejima, A. Danjo, K. Okuno, A. Yagishita, A.S. Kheifets, I. Bray
-
- FR011 EXCESS ENERGY DEPENDENCE OF CIRCULAR DICHROISM IN DOUBLE
1.1 PHOTOIONIZATION OF HELIUM
26 A. Nishimura, K. Soejima, T.J. Reddish, Y. Oguma, K. Okuno, A. Danjo, A. Yagishita
-
- FR012 CIRCULAR DICHROISM IN THE PHOTO DOUBLE IONIZATION OF HELIUM
1.1 INVESTIGATED BY COLD TARGET RECOIL ION MOMENTUM SPECTROSCOPY
27 (COLTRIMS)
V. Mergel, M. Achler, R. Dörner, L. Spielberger, T. Kambara, Y. Awaya, J. Berakdar, T. Koide,
Y. Azuma, H. Schmidt-Böcking
-
- FR013 DIFFERENTIAL CROSS SECTIONS FOR DOUBLE PHOTOIONIZATION (γ , 2E) IN
1.1 ATOMIC CALCIUM
28 A. De Fanis, H.-J. Baier, K.J. Ross, J.B. West
-
- FR014 THEORETICAL CALCULATION OF THE CROSS SECTIONS TO DOUBLE PHOTOION-
1.1 IZATION FOR SODIUM
29 Y. Xiangdong, J. Deqiong, L. Pengfei, F. Yibing, S. Guihua
-
- FR015 CROSS SECTION RATIO OF DOUBLE TO SINGLE IONIZATION OF HELIUM BY
1.1 COMPTON SCATTERING OF 40-100 KEV X-RAYS
30 L. Spielberger, H. Bräuning, A. Muthig, J.Z. Tang, J. Wang, Y. Qiu, R. Dörner, O. Jagutzki,
Th. Tschentscher, V. Honkimäki, V. Mergel, M. Achler, Th. Weber, Kh. Khayyat, J. Burgdörfer,
J. McGuire, H. Schmidt-Böcking
-

FR016 1.3 81	EVIDENCE FOR FRAGMENTATION CHANNEL DEPENDENT LINEWIDTHS NARROWING IN K-SHELL PHOTOEXCITATION SPECTROSCOPY OF N ₂ AND CO A.Hempelmann,N.Saito,F.Heiser,O.Hemmers,K.Wieliczek,J.Viefhaus,U.Becker
FR017 1.3 82	FRAGMENTATION OF ACETONE FOLLOWING SELECTIVE INNER-SHELL EXCITATION USING SR SOFT X-RAYS I.H.Suzuki,N.Saito
FR018 1.3 83	MOLECULAR SIZE EFFECT ON THE SITE AND STATE DEPENDENT FRAGMENTATION OF THE -SHELL EXCITED CH ₃ OCOCN AND CH ₃ OCOCH ₂ CN MOLECULES T.Ibuki,K.Okada,K.Saito,T.Gejo
FR019 1.3 84	ANGULAR DISTRIBUTION OF IONIC FRAGMENTS IN THE DISSOCIATION OF SO ₂ ²⁺ A.Kobayashi,Y.Konishi,T.Masuoka
FR020 1.3 85	COULOMB EXPLOSION DECOMPOSITION OF GE(CH ₃) ₄ FOLLOWING GE(3P) AND (3S) INNER SHELL PHOTOEXCITATION IN THE RANGE OF 50-470 EV B.H.Boo,N.Saito,I.H.Suzuki,I.Koyano
FR021 1.3 86	THE DISSOCIATIVE PHOTOIONIZATION OF METHANE IN THE VUV A.M.Sands,R.A.Mackie,N.Kouchi,K.F.Dunn,C.J.Latimer
FR022 1.3 87	DISSOCIATIVE PHOTOIONIZATION OF CF ₄ FROM 23 TO 120 EV T.Masuoka,Y.Ogaki,A.Kobayashi
FR023 1.3 88	ANGULAR DISTRIBUTION MEASUREMENT FOR SPIN-ORBIT STATE RESOLVED S 2P PHOTOELECTRONS OF SF ₆ IN THE SHAPE RESONANCE REGION T.Suzuki,T.Ishikawa,M.Kitajima,H.Tanaka,Y.Shimizu,H.Chiba,K.Ueda,Y.Sato,T.Hayaishi, M.Kimura
FR024 1.3 89	ANGLE-RESOLVED RESONANT AUGER ELECTRON SPECTROSCOPY OF BCl ₃ K.Ueda,Y.Shimizu,H.Chiba,Y.Sato,M.Kitajima,H.Tanaka,T.Hayaishi
FR025 1.3 90	ANISOTROPY OF QUASIAMERICAN AUGER ELECTRONS IN FAST DISSOCIATION OF PHOTOEXCITED MOLECULES N.M.Kabachnik,K.Ueda,Y.Muramatsu,Y.Sato
FR026 1.3 91	IONIC STATES OF SMALL MOLECULES INVESTIGATED BY 14 VIBRATIONALLY RESOLVED CORE-LEVEL PHOTOELECTRON SPECTROSCOPY U.Hergenhahn,A.Rüdel,E.E.Rennie,K.Maier,B.Kempgens,H.M.Köppe,A.M.Bradshaw
FR027 1.3 92	SPIN POLARIZATION OF THE 4D-PHOTOELECTRONS OF I ₂ -MOLECULES AFTER EX- CITATION BY LINEARLY AND CIRCULARLY POLARIZED RADIATION B.Schmidtke,M.Drescher,U.Heinzmann,G.Snell,J.Viefhaus,U.Becker
FR028 1.3 93	FEMTOSECOND ENERGY- AND ANGLE-RESOLVED PHOTOELECTRON SPECTRA Y.Arasaki,K.Takatsuka,K.Wang,V.McKoy
FR029 1.3 94	LASER-INDUCED FLUORESCENCE EXCITATION SPECTROSCOPY OF N ₂ ⁺ (X ² Σ _g ⁺ ,v=0) PRODUCED FROM N ₂ AND N ₂ O BY VUV PHOTOEXCITATION - ROTATIONAL STATE- RESOLVED SPECTRUM M.Mizutani,H.Niikura,K.Mitsuke
FR030 1.3 95	PHOTO DOUBLE-IONIZATION OF DEUTERIUM CHLORIDE STUDIED BY THRESHOLD PHOTOELECTRONS COINCIDENCE SPECTROSCOPY G.C.King,A.J.Yencha,M.C.A.Lopes,J.D.Bozek,N.Berrah
FR031 2.2 163	ANOMALOUS ELASTIC SCATTERING OF X-RAY PHOTONS BY THE SODIUM ATOM A.N.Hopersky,V.A.Yavna,S.A.Novikov

FR032 2.2 164	CORRELATION ANOMALITIES OF ATOMIC FORM-FACTOR IN THE X-RAY REGION OF ELASTIC SCATTERING A.N.Hopersky, V.F.Demekhin, S.A.Novikov, V.V.Timoshevskaya
FR033 2.2 165	ANOMALOUS ELASTIC SCATTERING OF X-RAY PHOTON BY LINEAR MOLECULE V.A.Yavna, A.N.Hopersky, A.M.Nadolinsky, V.V.Timoshevskaya
FR034 2.2 166	MOLECULES IN EXTERNAL FIELDS INDUCED BY FAST, HIGHLY-CHARGED IONS AND BY INTENSE LASER LIGHT F.A.Rajgara, D.Mathur
FR035 2.2 167	IONIZATION POTENTIAL OF HELIUM ATOM IN SUPERSTRONG LASER FIELDS A.F.Klinskikh
FR036 2.2 168	ELECTRONIC AND NUCLEAR DYNAMICS OF H_2^+ AND H_2 IN INTENSE LASER FIELDS H.Kono, I.Kawata, Y.Fujimura
FR037 2.2 169	QUANTUM CONTROL OF PHOTODISSOCIATION BY LOCALLY DESIGNED OPTICAL PULSES Y.Ohtsuki, K.Hoki, Y.Kurosawa, Y.Fujimura
FR038 2.2 170	LIGHT-INDUCED ATOMIC STATES AND DIABATIC PATHS IN INTENSE LASER FIELDS J.C.Wells, I.Simbotin, M.Gavrila
FR039 2.2 171	PHASE-AMPLITUDE METHOD FOR CALCULATING RESONANCE ENERGIES AND WIDTHS FOR ONE-DIMENSIONAL POTENTIALS E.Y.Sidky, I.Ben-Itzhak
FR040 2.2 172	CONTROL OF TIME-DEPENDENT NONADIABATIC PROCESSES BY AN OSCILLATORY EXTERNAL FIELD Y.Teranishi, H.Nakamura
FR041 2.2 173	ULTRAFAST BENDING MOTION OF CO_2 IN INTENSE LASER FIELDS STUDIED BY MOMENTUM IMAGING A.Hishikawa, A.Iwamae, K.Yamanouchi
FR042 2.2 174	ANISOTROPIC FRAGMENTATION OF NITRIC OXIDE IN INTENSE LASER FIELDS STUDIED BY MASS RESOLVED MOMENTUM IMAGING A.Iwamae, A.Hishikawa, K.Yamanouchi
FR043 2.2 175	THOMSON SCATTERING MEASUREMENT WITH THE TOKYO-EBIT H.Kuramoto, T.Kinugawa, I.Yamada, C.Yamada, H.Watanabe, T.Fukami, F.J.Currell, S.Ohtani
FR044 2.2 176	BEAMS OF MOLECULAR IONS IN INTENSE LASER FIELDS P.McKenna, A.Al-Zein, W.A.Bryan, B.Srigengan, J.H.Sanderson, I.D.Williams, W.R.Newell, P.F.Taday, A.J.Langley
FR045 2.2 177	SINGULAR PARTS OF THE RELATIVISTIC FREE-FREE NON-DIPOLE MATRIX ELEMENTS A.V.Korol, I.A.Solovjev
FR046 3.3 205	THRESHOLDS FOR SINGLE- AND DOUBLE-IONISATION OF NE OBTAINED IN HIGH-ENERGY ELECTRON IMPACT Gy.Víkor, A.Kövéér, S.Ricz
FR047 3.3 206	A STUDY OF THE TWO STEP MECHANISM IN THE DOUBLE IONISATION OF NOBLE GASES M.Grin, C.D.Cappello
FR048 3.3 207	COPLANAR UNEQUAL ENERGY SHARING CONSTANT θ_{12} GEOMETRY ELECTRON HYDROGEN ATOM IONIZATION COLLISION J.N.Das

FR049 3.3 208	DIFFERENTIAL CROSS SECTIONS FOR ELECTRON IMPACT EXCITATION OF ATOMIC NITROGEN S.S.Tayal,C.A.Beatty
FR050 3.3 209	ELECTRON IMPACT IONIZATION OF RARE-EARTH ATOMS S.Yagi,T.Nagata
FR051 3.3 210	ELECTRON IMPACT EXCITATION-IONIZATION (E,2E) TRIPLE DIFFERENTIAL IONIZA- TION CROSS SECTION FOR HE(1S ²) Y.Khajuria,D N Tripathi
FR052 3.3 211	ABSOLUTE FULLY RESOLVED (E,3E) CROSS SECTIONS FOR THE DOUBLE IONIZATION OF HELIUM A.Lahmam-Bennani,A.Duguet,I.Taouil,L.Avaldi,J.Berakdar
FR053 3.3 212	TRIPLE DIFFERENTIAL CROSS SECTION OF HELIUM ATOM BY ELECTRON IMPACT IONIZATION A.S.Bhullar,K.K.Sud
FR054 3.3 213	NORMALIZED BORN AND K-MATRIX APPROACHES FOR EXCITATION AND IONIZASION CROSS-SECTIONS FROM EXCITED STATES (N=2÷4, Δr=0) OF HEI I.L.Beigman,L.A.Vainshtein
FR055 3.3 214	CALCULATION OF SINGLY DIFFERENTIAL CROSS SECTION FOR HE(E,2E) HE ⁺ REACTION AT 64.6 EV A.C.Roy
FR056 3.3 215	ORIENTATIONAL DICHROISM IN THE (E,2E) REACTION ON THE LASER-ORIENTED SODIUM ATOMS A.S.Kheifets,I.Bray
FR057 3.3 216	BENCHMARK CALCULATIONS FOR SIMULTANEOUS IONIZATION-EXCITATION OF HE- LIUM A.S.Kheifets,I.Bray,K.Bartschat
FR058 3.3 217	FULLY DIFFERENTIAL (E,3E) CROSS SECTIONS FOR ELECTRON IMPACT DOUBLE IONIZATION OF HELIUM IN THE KEV REGIME A.S.Kheifets,I.Bray,A.Lahmam-Bennani,A.Duguet,I.Taouil
FR059 3.3 218	CLOSE-COUPPLING APPROACH TO ELECTRON-IMPACT IONIZATION I.Bray
FR060 3.3 219	ELECTRON IMPACT CROSS SECTIONS FOR KR S.Tsurubuchi,F.Hara,M.Hyodoh
FR061 4.2 288	THEORETICAL FIVE-FOLD DIFFERENTIAL CROSS SECTION FOR THE IONIZATION OF H ₂ AND D ₂ BY FAST ELECTRON IMPACT P.Weck,B.Joulakian,P.A.Hervieux
FR062 4.2 289	ANGULAR DISTRIBUTION OF THE MULTIPLY DIFFERENTIAL CROSS SECTION OF THE DOUBLE IONIZATION OF H ₂ BY ELECTRON IMPACT A.Motassim,B.Joulakian
FR063 4.2 290	ELECTRON SCATTERING FROM O ₂ : DIFFERENTIAL AND INTEGRAL CROSS SECTIONS FOR EXCITATION OF THE "6EV" ELECTRONIC STATES M.A.Green,L.Campbell,M.J.Brunger,P.J.O.Teubner,D.C.Cartwright
FR064 4.2 291	NUMERICAL STUDY ON COOLING OF ELECTRONS OF AN ARGON PLASMA JET IN COLLISION WITH HYDROGEN MOLECULE K.Kano,H.Akatsuka
FR065 4.2 292	NEAR-THRESHOLD ELECTRON IMPACT EXCITATION OF NITRIC OXIDE R.Olszewski,M.Zubek

FR066 4.2 293	SUPEREXCITED STATES OF THE HYDROGEN MOLECULE: THE Q ₁ AND Q ₂ SERIES I.Sánchez,F.Martín
FR067 4.2 294	FINITE-ELEMENT Z-MATRIX CALCULATION OF ELECTRON-N ₂ COLLISIONS W.M.Huo,C.E.Dateo
FR068 4.2 295	ELECTRON-IMPACT IONIZATION OF MOLECULAR IONS Y.-K.Kim,K.K.Irikura,M.A.Ali,W.M.Huo
FR069 4.2 296	INVESTIGATIONS OF COLLISION DYNAMICS AND EXCITATION CROSS SECTIONS FOR HE(1SNP) ¹ P ⁰ STATES (N= 2-5) BY INTERMEDIATE AND HIGH VELOCITY ELECTRON, PROTON, AND MOLECULAR ION (H ₂ ⁺ AND H ₃ ⁺) IMPACT USING EUV SPECTROMETRY H.Merabet,M.Bailey,R.Bruch,S.Bliman,A.Siems,A.G.Trigueiros,D.V.Fursa,L.Bray
FR070 5.1 347	ELECTRON IMPACT EXCITATION OF THE 4S-4P TRANSITION IN ZN II O.I.Zatsarinny,L.A.Bandurina
FR071 5.1 348	ENERGY LEVELS, OSCILLATOR STRENGTHS AND LIFETIMES IN S V G.P.Gupta,A.Z.Msezane
FR072 5.1 349	ENERGY LEVELS, OSCILLATOR STRENGTHS AND LIFETIMES IN ALUMINUM-LIKE SULPHUR G.P.Gupta,A.Z.Msezane
FR073 5.1 350	EXPERIMENTAL BENCHMARK OF THE RELATIVE EXCITATION CROSS SECTIONS OF THE 2P-3D RESONANCE AND INTERCOMBINATION TRANSITIONS IN NEON-LIKE IONS G.V.Brown,P.Beiersdorfer,D.A.Liedahl,K.J.Reed,S.B.Utter
FR074 5.1 351	EXPERIMENTAL CROSS SECTIONS FOR EXCITATION OF THE 2S ² S→2P ² P TRANSITION IN C ³⁺ A.Chutjian,J.B.Greenwood,S.J.Smith,E.Pollack
FR075 5.1 352	ENERGY LEVELS OF C IV, O VI, AND NE VIII A.K.Bhatia,R.J.Drachman
FR076 5.1 353	RELATIVISTIC AND RESONANCE EFFECTS IN ELECTRON IMPACT EXCITATION OF IRON IONS G-X.Chen,A.K.Pradhan
FR077 5.1 354	RELATIVISTIC ELECTRON IMPACT EXCITATION OF FE XXIII G-X.Chen,P.P.Ong
FR078 5.5 400	ATOMIC PROCESSES IN DISCHARGE PLASMAS FOR SOFT X-RAY AMPLIFICATION S.Karashima,T.Koike,S.Kojima,Y.Murakami
FR079 5.5 401	CALCULATION OF THE BREMSSTRAHLUNG CROSS SECTION ON POSITIVE IONS A.V.Korol,A.G.Lyalin,A.V.Solov'yov
FR080 5.5 402	RELATIVE DIFFERENTIAL CROSS SECTIONS FOR ELASTIC SCATTERING OF ELECTRONS FROM AR ⁷⁺ IONS BY USING A TOROIDAL ANALYZER J.Matsumoto,Z.Wang,A.Danjo,M.Yoshino,H.Tanuma,N.Kobayashi
FR081 5.5 403	SLOW ELECTRON COLLISIONS WITH CADMIUM ATOMS AND IONS I.V.Chernyshova,J.E.Kontros,O.B.Shpenik

FR082 5.5 404	LOW-ENERGY ELECTRON ELASTIC POTENTIAL BACKSCATTERING BY Mg^+ AND Zn^+ IONS IN THE ENERGY-DEPENDENT RANGE OF ANGLES E.Yu.Remeta, Yu.Yu.Bilak, L.L.Shimon
FR083 5.5 405	VISIBLE FORBIDDEN TRANSITIONS OF HIGHLY CHARGED IONS D.Kato, T.Fukami, T.Kinugawa, S.Ohtani, H.Watanabe, C.Yamada
FR084 5.5 406	NUMERICAL SOLUTION OF LIPPMANN-SCHWINGER EQUATION FOR ELECTRON AND H_2^+ ISOTOPE COLLISIONS H.Takagi
FR085 5.5 407	'CLOSED DISSOCIATIVE CHANNEL' EFFECT ON THE DISSOCIATIVE EXCITATION AND BRANCHING IN THE DISSOCIATIVE RECOMBINATION OF H_2^+ H.Takagi
FR086 5.5 408	THE BOLTZMANN COLLISION TERM IN STRONGLY MAGNETIZED PLASMA S.A.Koryagin
FR087 6.2 436	FULLY-CORRELATED MULTIELECTRON HIDDEN CROSSINGS THEORY P.S.Krstic, G.Bent, D.R.Schultz
FR088 6.2 437	PROTONIUM FORMATION IN P_{BAR} -H COLLISIONS R.J.Whitehead, I.Shimamura, J.F.McCann
FR089 6.2 438	LOW ENERGY COLLISION BETWEEN ANTIPROTON AND ATOMIC HYDROGEN K.Ohtsuki, Y.Ishida, M.Matsuzawa, M.Shinada
FR090 6.2 439	ON THE ABILITY OF MONOCENTRIC CLOSE-COUPPLING EXPANSIONS TO DESCRIBE IONIZATION IN ATOMIC COLLISIONS B.Pons
FR091 6.2 440	THE FOUR-BODY SYSTEM MADE UP OF HYDROGEN AND ANTIHYDROGEN AT LOW ENERGIES E.A.G.Armour, C.Chamberlain, V.Zeman
FR092 6.2 441	HYDROGEN-ANTIHYDROGEN COLLISIONS P.Froelich, S.Jonsell, A.Saenz
FR093 6.2 442	ELASTIC SCATTERING AND COLLISIONAL SHIFT OF HFS TRANSITIONS OF METASTABLE ANTIPROTONIC HELIUM G.Ya.Korenman
FR094 6.2 443	HIGH PRECISE CALCULATION OF METASTABLE STATES OF ANTIPROTONIC HELIUM ATOMCULES AND THE HELIUM DENSITY EFFECTS ON RESONANCE LINES N.C.Nishimura, Y.Kino, M.Kamimura, H.Kudo
FR095 6.2 444	SPECTROSCOPY OF ANTIPROTONIC HELIUM. TOWARD HIGHER PRECISION V.I.Korobov
FR096 6.2 445	COLLISIONAL SHIFT AND BROADENING OF ANTIPROTONIC HELIUM SPECTRAL LINES D.Bakalov, B.Jeziorski, T.Korona, K.Szalewicz, E.Tchoukova
FR097 6.2 446	FORMATION OF METASTABLE ANTIPROTONIC LITHIUM I.Shimamura, M.Kimura, G.Ya.Korenman
FR098 7.1 469	ELECTRON LOSS IN COLLISIONS OF IONS WITH NOBLE GASES W.S.Melo, A.C.F.Santos, M.M.Sant'Anna, G.M.Sigaud, E.C.Montenegro

FR099	ELECTRON PRODUCTION IN COLLISIONS OF C^{3+} WITH NOBLE GASES
7.1	A.C.F.Santos,W.S.Melo,M.M.Sant'Anna,G.M.Sigaud,E.C.Montenegro
470	
FR100	MULTIPLE IONIZATION OF NOBLE GASES BY HE^+
7.1	A.C.F.Santos,W.S.Melo,M.M.Sant'Anna,G.M.Sigaud,E.C.Montenegro
471	
FR101	ABSOLUTE MULTIPLE IONIZATION CROSS SECTIONS FOR IMPACT OF C^{3+} IN RARE GASES
7.1	A.C.F.Santos,W.S.Melo,M.M.Sant'Anna,G.M.Sigaud,E.C.Montenegro
472	
FR102	NEUTRAL BEAM PROJECTILES AS A CASE OF MINIMUM ELECTRON CORRELATION IN MULTIPLE IONIZATION OF HEAVY TARGETS
7.1	D.Fregenal,S.Suárez,G.Bernardi,P.Focke,A.D.González
473	
FR103	SEMICLASSICAL COUPLED CHANNEL CALCULATION FOR THE IONIZATION OF HYDROGEN ATOM BY SLOW ALPHA PARTICLE IMPACT
7.1	S.Sahoo,S.C.Mukherjee,N.C.Sil,K.Roy
474	
FR104	INTERNUCLEAR POTENTIAL EFFECT ON THE TRIPLY DIFFERENTIAL CROSS SECTION FOR ION - ATOM COLLISION
7.1	M.D.Sánchez,W.R.Cravero,C.R.Garibotti
475	
FR105	TWO-DIMENSIONAL CONTINUUM WAVE FUNCTIONS FOR THREE-CHARGED PARTICLES
7.1	S.Otranto,W.R.Cravero,G.Gasaneo,F.D.Colavecchia,C.R.Garibotti
476	
FR106	IONIZATION OF ATOM UNDER HEAVY PARTICLE IMPACT
7.1	S.C.Mukherjee,S.Sahoo,K.Roy,N.C.Sil
477	
FR107	IONIZATION IN SLOW COLLISIONS OF PROTONS WITH ATOMIC OXYGEN
7.1	J.P.Hansen,L.Kocbach,I.Ladadwa
478	
FR108	LOW ENERGY ELECTRON EMISSION IN INTERMEDIATE VELOCITY ION ATOM COLLISIONS
7.1	A.L.Landers,C.L.Cocke,M.J.Singh
479	
FR109	DOUBLE ELECTRON CAPTURE IN FAST HE-HE COLLISIONS - MULTI-THOMAS-PROCESSES
7.1	M.Achler,V.Mergel,R.Dörner,L.Spielberger,T.Weber,Kh.Khayyat,A.Muthig,E.Ertürk,
480	A.Nauert,H.Cederquist,H.Schmidt,Dz.Belkic,J.McGuire,H.Schmidt-Böcking
FR110	MOMENTUM SPECTROSCOPY OF THE PROJECTILE AND THE RECOIL ION IN 75-100 KEV H^+ -HE COLLISION
7.1	M.Schulz,L.An,R.DuBois
481	
FR111	A KINEMATICALLY COMPLETE EXPERIMENT FOR TRANSFER IONIZATION IN SLOW HE^{2+} -HE COLLISIONS
7.1	L.Schmidt,V.Mergel,M.Achler,L.Spielberger,O.Jagutzki,R.Dörner,H.Schmidt-Böcking
482	
FR112	COMPARISON BETWEEN DOUBLE AND SINGLE ELECTRON CAPTURE OCCURRING WITH SIMULTANEOUS IONIZATION: ${}^3HE^{2+} + AR$ COLLISIONS
7.1	D.Fregenal,J.Fiol,A.Muthig,T.Jalowy,H.Luna,S.Suárez,G.Bernardi,P.Focke,
483	K.O.Groeneveld,A.D.González
FR113	STATE-SELECTIVE DIFFERENTIAL CROSS SECTION MEASUREMENTS FOR ONE-ELECTRON CAPTURE PROCESSES AT 10 EV REGION
7.7	Y.Itoh
542	
FR114	TIME-DEPENDENT LOCAL DENSITY APPROXIMATION APPLIED TO COLLISION BETWEEN HIGHLY CHARGED ION AND ATOM
7.7	R.Nagano,K.Yabana,T.Tazawa.Y.Abe
543	
FR115	ELECTRON-CAPTURE CROSS SECTIONS NORMALIZED IN THE IMPACT-PARAMETER REPRESENTATION
7.7	V.P.Shevelko,I.Yu.Tolstikhina
544	

FR116 7.7 545	QUANTUM MECHANICAL STUDY OF CAPTURE AND IONIZATION PROCESSES IN FAST $F^{9+} + NE$ COLLISIONS T.Kirchner, H.J.Lüdde, R.M.Dreizler
FR117 7.7 546	ELECTRON CAPTURE CROSS-SECTIONS BY BORON IONS IN VARIOUS MEDIA I.S.Dmitriev, Ya. A. Teplova, Yu. A. Belkova, Yu. A. Fainberg
FR118 7.7 547	DOUBLE AND SINGLE K-K TRANSFER AND SUBSHELL RESOLVED L-K ELECTRON TRANSFER CROSS SECTIONS IN ION ATOM COLLISION B.B.Dhal, L.C.Tribedi, A.K.Saha, U.Tiwari, P.N. Tandon, T.Lee, C.D.Lin
FR119 7.7 548	CROSS SECTION MEASUREMENTS OF MULTIPLE ELECTRON TRANSFER IN AR^{Q+} ($Q=8-12$) ON NE COLLISIONS X.Ma, H.Liu, Z. Yang, Y. Wang, D. Yu, X. Chen, Z. Shen, Z. Liu
FR120 7.7 549	MECHANISM OF DOUBLY EXCITED HE BY DOUBLE ELECTRON TRANSFER FROM NEUTRAL ATOMS T.Watanabe, X.M.Tong, S.Ohtani, K.Iemura, Y.Kanai, H.Suzuki
FR121 7.7 550	STATE-SELECTIVE SINGLE-ELECTRON CAPTURE IN AR^{6+} -HE AND AR^{7+} -HE COLLISIONS E.Y.Kamber, M.A.Abdallah, C.L.Cocke, M.Stockli
FR122 7.7 551	ENERGY SHIFTS OBSERVED IN THE FINAL STATE N-DISTRIBUTIONS OF CHARGED IONS INCIDENT ON ALIGNED RYDBERG TARGETS K.Cornelius, R.E.Olson
FR123 9.2 627	TWO-DIMENSIONAL PENNING IONIZATION ELECTRON SPECTROSCOPY AND CLASSICAL TRAJECTORY CALCULATIONS OF PARTIAL IONIZATION CROSS SECTIONS FOR LINEAR MOLECULES N.Kishimoto, M.Kurita, T.Ogawa, K.Ohno
FR124 9.2 628	PENNING IONIZATION OF NCCN BY EXPERIMENT AND THEORY: A TWO-DIMENSIONAL PENNING IONIZATION ELECTRON SPECTROSCOPIC AND QUANTUM-CHEMICAL STUDY T.Pasinszki, N.Kishimoto, T.Ogawa, K.Ohno
FR125 9.2 629	HIGHLY SENSITIVE PENNING IONIZATION ELECTRON SPECTROSCOPY BY A MAGNETIC BOTTLE ELECTRON ENERGY ANALYZER H.Tanaka, R.Maruyama, Y.Yamakita, H.Yamakado, F.Misaizu, K.Ohno
FR126 9.2 630	CHARGE TRANSFER IN $C^{4+} + H, H_2$ COLLISIONS. A COMPARISON BETWEEN AB INITIO AND MODEL POTENTIAL METHODS L.F.Errea, J.D.Gorfinkiel, C.Harel, H.Jouin, A.Macías, L.Méndez, B.Pons, A.Riera
FR127 9.2 631	FRAGMENTATION OF $N_2, O_2,$ AND CO IN ELECTRON CAPTURE COLLISIONS OF ${}^3He^{2+}$ AT ENERGIES BELOW 1 KEV/AMU T.Kaneyasu, K.Ishii, M.Ehrich, M.Yoshino, K.Okuno
FR128 9.2 632	CHARGE CHANGING CROSS SECTIONS OF KR^{Q+} ($Q=3-9$) COLLIDING WITH CO AT LOW ENERGIES BELOW 110 EV/AMU K.Ishii, K.Okuno, N.Kobayashi
FR129 9.2 633	FRAGMENTATION OF CO IN ELECTRON CAPTURE COLLISIONS OF KR^{8+} AT ENERGIES BELOW 200 EV/AMU K.Ishii, M.Ehrich, T.Kaneyasu, M.Yoshino, K.Okuno
FR130 9.2 634	FRAGMENTATION OF N_2 IN ELECTRON CAPTURE COLLISIONS OF KR^{8+} AT ENERGIES BELOW 200 EV/AMU M.Ehrich, K.Ishii, T.Kaneyasu, M.Yoshino, K.Okuno
FR131 9.2 635	DISSOCIATION OF N_2 AND CO MOLECULES IN SLOW COLLISIONS OF AR^{Q+} ($Q=6,7,8,9$) Y.Oguma, Y.Konuma, T.Yamaguchi, K.Soejima, A.Danjo, M.Yoshino

FR132 9.2 636	MEASUREMENTS OF ABSOLUTE, SINGLE CHARGE EXCHANGE CROSS SECTIONS OF H^+ , HE^+ AND HE^{2+} WITH H_2O AND CO_2 A.Chutjian,J.B.Greenwood,S.J.Smith
FR133 9.2 637	OSCILLATION OF ELECTRON-CAPTURE CROSS SECTION VERSUS IMPACT ENERGY FOR PROTONS INCIDENT ON SPATIALLY-ORIENTED MOLECULAR HYDROGEN S.Alston
FR134 9.2 638	THREE-CENTER COULOMBIC OVER-BARRIER MODEL FOR MULTIPLE ELECTRON TRANSFER FROM HOMONUCLEAR DIATOMIC MOLECULES A.Ichimura,T.Ohyama-Yamaguchi
FR135 9.2 639	INELASTIC PROCESSES AT THE ALKALI METAL IONS IMPACT WITH RARE-GAS ATOMS AND H_2 , N_2 MOLECULES IN MODERATE-ENERGY RANGE M.Gochitashvili,B.Kikiani,S.Kita,R.Lomsadze
FR136 12.2 687	VOLUME PLASMONS EXCITATION IN IMPACT IONIZATION PROCESS OF METAL CLUSTERS L.G.Gerchikov,A.N.Ipatov,R.G.Polozkov,A.V.Solov'yov
FR137 12.2 688	ELECTRON IMPACT IONIZATION OF SIMPLE METAL CLUSTERS B.Hafida,P.A.Hervieux,M.E.Madjet
FR138 12.2 689	ENERGY LOSS AND MULTI-IONISATION IN ION-CLUSTER COLLISIONS T.Bergen,F.Chandezon,C.Guet,B.A.Huber,H.Lebius,A.Pesnelle
FR139 12.2 690	COULOMB INSTABILITIES IN METAL CLUSTERS BEYOND THE RAYLEIGH LIMIT INDUCED BY HIGHLY CHARGED IONS H.Lebius,T.Bergen,F.Chandezon,C.Guet,B.A.Huber,A.Pesnelle,S.Tomita
FR140 12.2 691	MICROSCOPIC DESCRIPTION FOR MULTIPLE CHARGE TRANSFER IN THE COLLISION BETWEEN HIGHLY CHARGED ION AND ATOMIC CLUSTERS T.Tazawa,K.Yabana,P.Bozek,Y.Abe
FR141 12.2 692	PENNING DETACHMENT OF NEGATIVELY-CHARGED METAL CLUSTERS WITH EXCITED ATOMS F.Martin,P.A.Hervieux,J.Hanssen,M.E.Madjet,R.S.Berry
FR142 12.2 693	NON-ADIABATIC QUANTUM MOLECULAR DYNAMICS: COMPETING REACTION MECHANISMS IN ATOM-CLUSTER COLLISIONS U.Saalmann,R.Schmidt
FR143 12.2 694	DISSOCIATION REACTIONS OF $(CO_2)_N^+$ ($2 \leq N \leq 9$) CLUSTER IONS IN COLLISION WITH HE ATOM H.Sakai,A.Fujino,T.Koizumi,Y.Itoh
FR144 12.2 695	PRODUCTION OF $Ar_M N_2$ IN THE AR-CLUSTER BEAM PASSING THROUGH A NITROGEN GAS Y.Ozaki,T.Fukuyama
FR145 12.2 696	PHOTOIONIZATION MASS SPECTROSCOPY OF CLUSTERS OF METAL ATOMS SOLVATED WITH ACRYLONITRILE MOLECULES: ELECTRON TRANSFER FROM METAL ATOM K.Ohshimo,F.Misaizu,K.Ohno
FR146 12.2 697	PHOTOIONIZATION AND DENSITY FUNCTIONAL STUDY OF ALKALI METAL-ACETONE COMPLEXES ELECTRON TRANSFER FROM THE METAL ATOM TO THE MOLECULE H.Tsunoyama,K.Ohshimo,Y.Yamakita,F.Misaizu,K.Ohno
FR147 12.2 698	THEORY OF TIME SCALE IN STRUCTURAL ISOMERIZATION OF CLUSTERS T.Yanao,K.Takatsuka

FR148 12.2 699	THE DYNAMICS OF IONIC MICROSOLVATION: PROTONATED RARE GAS CLUSTERS B.Balta,I.Baccarelli,F.Filippone,,F.A.Gianturco
FR149 14 739	FURTHER WORK ON THE DESIGN AND IMPLEMENTATION OF A BRIGHT METASTABLE ATOM SOURCE J.G.Lambourne,M.K.Odling-Smee,A.T.Cousins,P.Hammond
FR150 14 740	KINEMATICALLY COMPLETE EXPERIMENTS FOR DOUBLE IONIZATION OF HE ATOM-S: DEVELOPMENT OF A LASER-PULSED PHOTO-EMISSION SOURCE C.D.Schröter,A.Dorn,R.Moshhammer,J.Ullrich
FR151 14 741	DEVELOPMENT OF AN ALL-PERMANENT MAGNET 10 GHZ ECR ION SOURCE FOR THE PRODUCTION OF MULTIPLY CHARGED IONS FROM METALLIC ELEMENTS R.Trassl,F.Bröetz,R.W.McCullough,E.Salzborn
FR152 14 742	STATUS OF FREIBURG ELECTRON BEAM ION TRAP FREEBIT: A NEW SOURCE FOR HIGH-Z HYDROGENIC IONS J.R.C.López-Urrutia,B.Bapat,A.Dorn,R.Moshhammer,J.Ullrich
FR153 14 743	DEVELOPMENT OF A COMPACT EBIT WITH NDFEB PERMANENT MAGNETS K.Motohashi,A.Moriya,H.Yamada,S.Tsurubuchi
FR154 14 744	CYLINDRICAL MIRROR ANALYZER EQUIPPED WITH THE POSITION SENSITIVE DETECTOR SUITED FOR MERGED-BEAM APPARATUS M.Oura,H.Yamaoka,K.Kawatsura,T.Igarashi,T.Hayaishi,J.Kimata,T.M.Kojima,M.Kimura,Y.Itoh,T.Koizumi
FR155 14 745	AN ELECTROSTATIC ANALYZER FOR MEASURING THE ENERGY AND ANGULAR DISTRIBUTION OF ELECTRONS SIMULTANEOUSLY S.Ricz,Á.Kövéér,D.Varga,J.Molnár,S.Aksela,A.Hiltunen
FR156 14 746	SHACHI, A NEW CONCEPT IN DEVICES FOR LOW ENERGY ELECTRON SPECTROSCOPY F.J.Currell,O.Furuhashi,K.Kawamura,S.Ohtani
FR157 14 747	A TOROIDAL-TYPE ELECTRON ENERGY ANALYZER FOR ION-ATOM COLLISIONS K.Ogura,M.Okamoto,T.Takayanagi,K.Wakiya,Y.Nakai,Y.Kanai
FR158 14 748	A 2π GAS PHASE MULTICHANNEL BINARY (E,2E) SPECTROMETER FOR RAPID ORBITAL IMAGING Y.Zheng,G.Cooper,S.Tixier,C.E.Brion
FR159 14 749	DEVELOPMENT OF THE MULTIPLE COINCIDENCE DATA ACQUISITION SYSTEM BY USING TWO-DIMENSIONAL POSITION SENSITIVE DETECTORS M.Yoshino,M.Endo,T.Shino,H.Suzuki,T.Wagatsuma,N.Tanaka,A.Danjo,Y.Itoh
FR160 14 750	VXI-BASED CONTROL AND DATA ACQUISITION SYSTEM FOR ATOMIC PHYSICS EXPERIMENTS J.Kimata,T.Hayaishi,T.Igarashi,K.Kawatsura,H.Yamaoka,M.Oura
FR161 14 751	ION IMAGING DETECTION OF ELECTRON TRANSFER IN RYDBERG ATOM-SODIUM DIMER INTERACTIONS C.Gebauer-Rochholz,O.Kaufmann,K.Bergmann
FR162 14 752	LOW ENERGY ELECTRON GUNS WITH HAIRPIN FILAMENTS M.Furuichi,L.Boesten,S.Nishida,K.Okada
FR163 14 753	DEVELOPMENT OF A COMPACT MULTILAYER MIRROR (MLM) POLARIMETER IN THE EXTREME ULTRAVIOLET (EUV) RANGE H.Merabet,M.Bailey,R.Bruch
FR164 14 754	STATUS REPORT ON THE INTERNAL GAS-JET TARGET FOR FAST ION-ATOM COLLISION STUDIES IN THE HEAVY-ION STORAGE RING CRYRING H.T.Schmidt,S.Schwartz,H.Cederquist,R.Schuch,L.Bagge,A.Källberg,J.Hilke,K.-G.Rensfelt,V.Mergel,M.Achler,R.Dörner,R.Moshhammer,H.Schmidt-Böcking,H.Reich,W.Schmitt,J.Ullrich

FR165 COLD TARGET RECOIL ION MOMENTUM SPECTROSCOPY (COLTRIMS), A
14 MOMENTUM MICROSCOPE WITH SUBATOMIC RESOLUTION
755 V.Mergel,R.Dörner,O.Jagutzki,L.Spielberger,M.Achler,L.Schmidt,J.Ullrich,R.Moshammer,
C.L.Cocke,H.Schmidt-Böcking

SATURDAY, 24 July

SA001	HIGH ENERGY ZEROS AND OTHER TYPES OF ZEROS IN PHOTOIONIZATION
1.1	L.A.LaJohn,R.H.Pratt
31	
SA002	PHOTOIONIZATION BY PHOTOABSORPTION OF A TWO-ELECTRON ATOM OR ION AND THE PROPERTIES OF THE TWO-ELECTRON WAVE FUNCTIONS
1.1	T.Suric,R.H.Pratt,E.G.Drukarev
32	
SA003	2-DIMENSIONAL TIME-OF-FLIGHT ELECTRON SPECTROMETRY: THE INNER SHELL EXCITATIONS IN RARE GASES AND SMALL MOLECULES
1.1	B.Langer,E.Kukk,A.A.Wills,A.Farhat,O.Nayandin,M.Alshehri,N.Berrah,J.D.Bozek,
33	D.Cubaynes,R.Hentges,U.Becker
SA004	INNER SHELL PHOTOION-FLUORESCENCE COINCIDENCE SPECTROSCOPY OF ARGON AND XENON
1.1	E.E.Rennie,U.Hergenhahn,O.Gessner,F.Heiser,A.Rüdel,A.Hempelmann
34	
SA005	DYNAMICALLY INDUCED SPIN POLARIZATION OF RESONANT AUGER ELECTRONS
1.1	U.Hergenhahn,G.Snell,M.Drescher,B.Schmidtke,M.Wiedenhöft,N.Müller,U.Becker,U.Heinzmann
35	
SA006	SYSTEMATIC AMBIGUITY IN THE EXTRACTION OF MATRIX ELEMENTS FROM THE FIVE DYNAMICAL PARAMETERS OF PHOTOIONIZATION
1.1	B.Schmidtke,M.Drescher,U.Heinzmann
36	
SA007	HIGH-RESOLUTION PHOTOIONIZATION CROSS SECTIONS OF ARGON AND KRYPTON IN THE VICINITY OF THE SUBVALENCE NS-THRESHOLD
1.1	S.Laur,H.Liebel,F.Vollweiler,R.Müller-Albrecht,H.Steffes,H.Schmoranzner,G.Reichardt,
37	V.L.Sukhorukov,B.M.Lagutin,I.D.Petrov,Ph.V.Demekhin,K.-H.Schartner,G.Mentzel,O.Wilhelmi
SA008	CALCULATIONS OF PHOTOIONIZATION CROSS SECTIONS BY USING THE COMPLEX COORDINATE METHOD AND THE LANCZOS ALGORITHM
1.1	H.Suno,L.Andric,T.P.Grozdanov,R.McCarroll
38	
SA009	PHOTOIONIZATION OF ATOMS IN PARALLEL ELECTRIC AND MAGNETIC FIELDS
1.1	H.Suno,L.Andric,T.P.Grozdanov,R.McCarroll
39	
SA010	LASER PHOTOIONIZATION ELECTRON SPECTROSCOPY OF POLARIZED RARE GAS ATOMS EXCITED WITH SYNCHROTRON RADIATION
1.1	K.Iwasaki,Y.Hikosaka,K.Mitsuke
40	
SA011	CHARACTERIZATION OF AN APPARATUS FOR PHOTON-ION COLLISION EXPERIMENT AT THE SPRING-8
1.2	H.Yamaoka,M.Oura,T.Igarashi,K.Kawatsura,J.Kimata,T.Hayaishi,T.M.Kojima,M.Kimura,
64	T.Sekioka,M.Terasawa
SA012	ABSOLUTE PHOTOIONIZATION CROSS SECTION OF $+$ IONS
1.2	F.Folkmann,H.Kjeldsen,H.Knudsen,M.S.Rasmussen,J.B.West,T.Andersen
65	
SA013	ABSOLUTE PHOTOIONIZATION CROSS SECTION MEASUREMENTS OF XE^+ IONS IN THE 4D-THRESHOLD ENERGY REGION
1.2	A.Ito,Y.Itoh,M.Kitajima,T.Koizumi,T.M.Kojima,H.Sakai,M.Sano,N.Watanabe
66	
SA014	4D PHOTOIONIZATION OF SINGLY CHARGED CS^+ ION
1.2	T.Koizumi,Y.Itoh,A.Ito,T.M.Kojima,M.Sano,N.Watanabe
67	
SA015	PHOTOIONIZATION CROSS SECTION CALCULATIONS OF EU AND ITS IONS EU^+ AND EU^{++}
1.2	M.Ya.Amusia,L.V.Chernysheva,V.K.Ivanov
68	
SA016	AUGMENTED MANY-BODY PERTURBATION THEORY CALCULATIONS OF INNER-SHELL PHOTOIONIZATION OF SC AND SC^{++} : A COMPARISON
1.2	Z.Altun,S.T.Manson
69	

SA017 1.2 70	PHOTOABSORPTION THRESHOLD ANOMALY IN THE ARGON ISOELECTRONIC SEQUENCE H.S.Chakraborty,P.C.Deshmukh,S.T.Manson
SA018 1.2 71	PHOTOIONIZATION OF NEON-LIKE IONS: EFFECT OF INTERCHANNEL COUPLING AT HIGHER ENERGIES H.S.Chakraborty,P.C.Deshmukh,S.T.Manson
SA019 1.2 72	RELATIVISTIC EFFECTS IN ATOMIC AND IONIC PHOTOIONIZATION: "ANOMALOUS" BEHAVIOR AT THE LOW END OF ISOELECTRONIC SEQUENCES H.S.Chakraborty,P.C.Deshmukh,E.W.B.Dias,S.T.Manson
SA020 1.2 73	PHOTOIONIZATION OF XE ⁴⁺ IONS COMBINING THE USE OF AN ECR ION SOURCE WITH THE SYNCHROTRON RADIATION BEAM EMITTED BY UNDULATOR J.-M.Bizau,C.Blancard,R.Marmoret,D.Hitz,J.M.Esteva,C.Couillaud,P.Ludwig,D.Cubaynes,C.Rémond,A.C.La Fontaine,J.Lachkar,F.J.Wuilleumier
SA021 1.3 96	THRESHOLD PHOTOELECTRON SPECTROSCOPY AND PHOTO DOUBLE-IONIZATION OF SULFUR HEXAFLUORIDE M.C.A.Lopes,A.J.Yencha,D.B.Thompson,G.C.King
SA022 1.3 97	THRESHOLD PHOTOELECTRON SPECTROSCOPY OF HF IN THE INNER VALENCE IONIZATION REGION A.J.Yencha,M.C.A.Lopes,M.A.MacDonald,G.C.King
SA023 1.3 98	ANALYSIS OF THE PHASE SHIFT BETWEEN σ - AND π -CONTINUA IN THE C(LS) PHOTOIONIZATION OF CO O.Gessner,A.Hempelmann,B.Zimmermann,J.Viefhaus,R.Hentges,K.Wieliczek,U.Becker
SA024 1.3 99	PARTIAL CROSS SECTION MODULATIONS IN C ₆₀ : EXTENDED MEASUREMENTS A.Rüdel,R.Hentges,U.Becker
SA025 1.3 100	VIBRATIONALLY RESOLVED PHOTOELECTRON-AUGER ELECTRON COINCIDENCE SPECTROSCOPY OF SMALL MOLECULES J.Viefhaus,U.Hergenhahn,R.Hentges,A.Rüdel,U.Becker
SA026 1.3 101	ANGULAR DISTRIBUTIONS OF PHOTOELECTRONS FROM FIXED-IN-SPACE CO MOLECULES K.Ito,J.Adachi,Y.Hikosaka,S.Motoki,M.Sano,E.Shigemasa,K.Soejima,A.Yagishita,G.Raseev,N.A.Cherepkov
SA027 1.3 102	DETERMINATION OF DIPOLE MATRIX ELEMENTS AND PHASE SHIFTS FROM THE MEASURED ANGULAR DISTRIBUTIONS OF PHOTOELECTRONS FOR FIXED-IN-SPACE CO MOLECULES S.Motoki,J.Adachi,Y.Hikosaka,M.Sano,E.Shigemasa,K.Soejima,A.Yagishita,K.Ito,G.Raseev,N.A.Cherepkov
SA028 1.3 103	PHOTO DOUBLE IONIZATION OF SPATIALLY ALIGNED D ₂ R.Dörner,H.Bräuning,O.Jagutzki,V.Mergel,M.Achler,R.Moshammer,J.Feagin,T.Osipov,A.Bräuning-Demian,L.Spielberger,J.H.McGuire,M.H.Prior,N.Berrah,A.Landers,J.Bozek,C.L.Cocke,H.Schmidt-Böcking
SA029 1.3 104	DYNAMICAL ASPECTS OF PHOTOELECTRON ANGULAR DISTRIBUTIONS FROM K-SHELLS OF ORIENTED CO ₂ K.Ito,J.Adachi,Y.Hikosaka,S.Motoki,M.Sano,K.Soejima,A.Yagishita,K.Wang,V.McKoy
SA030 1.3 105	PHOTOIONIZATION OF THE TRIATOMIC HYDROGEN MOLECULE U.Müller,R.Reichle,I.Mistri,J.Stephens,M.Jungen,H.Helm
SA031 2.1 138	NONADIABATIC EFFECTS IN RYDBERG STATES AND THEIR MANIFESTATION IN MULTIPHOTON IONIZATION OF MOLECULES G.K.Ivanov,G.V.Golubkov,
SA032 2.1 139	TWO-PHOTON EXCITATION/IONIZATION OF ATOMIC INNER SHELLS S.A.Novikov,A.N.Hopersky

SA033 2.1 140	A(4+2) RESONANCE ENHANCED MULTIPHOTON IONIZATION STUDY OF THE $1\Sigma^+$ STATE OF CO F.B.Yousif,I.Alvarez,C.Cisneros,J.de Urquijo,J.P.Flores
SA034 2.1 141	FIVE PHOTON EXCITATION OF AUTOIONIZING STATES OF XE BETWEEN THE $2R/Q$ AND $2P_{1/2}$ IONIC LIMIT F.B.Yousif,I.Alvarez,C.Cisneros,J.de Urquijo
SA035 2.1 142	R-MATRIX-FLOQUET THEORY OF MOLECULAR MULTIPHOTON PROCESSES J.Colgan,D.H.Glass,K.Higgins,P.G.Burke
SA036 2.1 143	MOMENTUM IMAGING OF GROUND STATE AND VIBRATIONALLY EXCITED H ₂ O USING A FEMTOSECOND LASER PULSE OF INTENSITY 10^{17} W/CM ² J.H.Sanderson,W.A.Bryan,A.El-Zein,W.R.Newell,I.D.Williams,P.McKenna,P.F.Taday,A.J.Langley
SA037 2.1 144	TRIATOMIC MOLECULAR STRUCTURE STUDIED BY ION-MOMENTUM IMAGING AND MONTE-CARLO SIMULATION W.A.Bryan,A.El-Zein,J.H.Sanderson,W.R.Newell,A.J.Langley,P.F.Taday
SA038 2.1 145	DOUBLE IONIZATION DYNAMICS OF LASER-DRIVEN HELIUM D.Dundas,K.T.Taylor,J.S.Parker,E.S.Smyth
SA039 2.1 146	ON THE CAUSE OF NON-REVELATION OF THE AUTOIONIZING STATES AT THREE-PHOTON IONIZATION A.I.Gomonai,I.P.Zapesochny
SA040 2.1 147	COLLECTIVE EFFECTS IN 2+1 REMPI OF ATOMIC DEUTERIUM AT 243 NM B.Shortt,F.Giammanco,P.J.M.van der Burgt,R.W.O'Neill
SA041 2.1 148	DC FIELD-INDUCED, PHASE AND POLARIZATION CONTROL OF INTERFERENCE BETWEEN ONE- AND TWO-PHOTON IONIZATION AMPLITUDES N.L.Manakov,V.D.Ovsiannikov,A.F.Starace
SA042 2.1 149	TIME-DEPENDENT AND TIME-INDEPENDENT METHODS APPLIED TO MULTIPHOTON IONIZATION OF HELIUM L.R.Moore,D.H.Glass,J.S.Parker,E.S.Smyth,P.G.Burke,K.T.Taylor
SA043 2.1 150	RESONANCES IN THE MULTIPHOTON IONIZATION OF HELIUM AT 248 NM D.H.Glass, P.G.Burke
SA044 3.2 184	SUPER ELASTIC ELECTRON SCATTERING FROM POTASSIUM K.A.Stockman,V.Karaganov,I.Bray,P.J.O.Teubner
SA045 3.2 185	ELECTRON EXCITATION OF AUTOIONIZING STATES IN ALKALIS R.Srivastava,S.Kaur
SA046 3.2 186	RESONANCE STRUCTURE IN ELECTRON-COLLISION INDUCED ALIGNMENT OF CORE-EXCITED ATOMIC STATES A.N.Grumb-Grzhimailo,K.Bartschat,B.Feuerstein,W.Mehlhorn
SA047 3.2 187	COMPUTER SIMULATION OF COLLISIONALLY EXCITED STATES D.Loveall,M.B.Hamley,B.J.Miller,K.Bartschat
SA048 3.2 188	APPLICATION OF QUANTUM STATE RECONSTRUCTION VIA OPTICAL FORCES TO ELECTRON ATOM SCATTERING EXPERIMENTS B.T.H.Varcoe,R.T.Sang,W.R.MacGillivray,M.C.Standage
SA049 3.2 189	THE BEHAVIOUR OF L_{\perp} FOR INELASTIC (P-S) ELECTRON-ATOM COLLISIONS M.Shurgalin,A.J.Murray,W.R.MacGillivray,M.C.Standage,D.H.Madison,K.D.Winkler,I.Bray

SA050	SUPERELASTIC ELECTRON SCATTERING FROM RUBIDIUM
3.2	B.V.Hall,A.J.Murray,W.R.MacGillivray,M.C.Standage,I.Bray
190	
SA051	POLARISATION CORRELATION MEASUREMENTS OF ELECTRON IMPACT
3.2	EXCITATION OF H(2P) AT LOW ENERGIES
191	G.M.Fitzpatrick,R.W.O'Neill,P.J.M.van der Burgt,J.A.Slevin
SA052	EXCITATION OF THALLIUM AND LEAD BY ELECTRON IMPACT
3.2	S.Kaur,R.Srivastava,R.P.McEachran,A.D.Stauffer
192	
SA053	INTEGRATED STATE MULTIPOLES AND STOKES PARAMETERS FOR THE
3.2	EXCITATION OF THE (N+1)P STATES OF THE NOBLE GASES
193	S.Kaur,R.Srivastava,R.P.McEachran,A.D.Stauffer
SA054	ABSOLUTE EXPERIMENTAL AND THEORETICAL TDCS FOR KR(4P) ELECTRON IM-
3.3	PACT IONIZATION
220	S.J.Cavanagh,B.Lohmann,J.Rasch,C.T.Whelan,H.R.J.Walters
SA055	(E,2E) MEASUREMENTS OF RARE GAS INNER-SHELL IONIZATION
3.3	B.Lohmann,A.Duguet,A.Lahmam-Bennani,I.Taouil,J.Rasch,C.T.Whelan,H.R.J.Walters
221	
SA056	(E,2E) MEASUREMENTS ON THE 3S STATE OF ARGON USING A NEW COINCIDENCE
3.3	SPECTROMETER
222	M.A.Haynes,B.Lohmann
SA057	FINAL STATE CORRELATION IN ELECTRON IONIZATION OF HEAVY ATOMS
3.3	B.Polis,D.H.Madison
223	
SA058	EXCITATION OF HE 1 ¹ S-2 ³ S - A FIELD THEORETIC APPROACH
3.3	S.Bhattacharyya,S.Mitra,J.Bandyopadhaya
224	
SA059	ELECTRON IMPACT EXCITATION-IONIZATION OF HELIUM: (E,2E)
3.3	P.Marchalant,J.Rasch,C.T.Whelan,H.R.J.Walters
225	
SA060	(E,3E) ON HELIUM
3.3	P.Marchalant,J.Rasch,C.T.Whelan,H.R.J.Walters
226	
SA061	RESONANCES IN ELECTRON-ATOM IONIZATION (E,2E) PROCESSES IN THE
3.3	REGION OF OVERLAPPING AUTOIONIZING STATES
227	M.Tabanli,J.L.Peacher,D.H.Madison
SA062	STUDY OF STRONG FINAL STATE CORRELATION FOR ELECTRON IMPACT
3.3	IONIZATION OF ARGON
228	D.B.Chitwood,J.L.Peacher,D.H.Madison
SA063	USE OF RELATIVISTIC EFFECTIVE CORE POTENTIAL IN THE CALCULATION OF
3.3	ELECTRON-IMPACT TOTAL IONIZATION CROSS SECTIONS
229	W.M.Huo,Y.-K.Kim
SA064	ELECTRON IMPACT DOUBLE IONIZATION OF KRYPTON AND XENON BY
3.3	EJECTION OF OUTER SHELL S- AND P-ELECTRONS
230	V.-F.Z.Papp,M.M.Povch,L.L.Shimon
SA065	IONIZATION OF EXCITED HYDROGEN ATOMS BY FAST ELECTRON IMPACT
3.3	O.A.Fojón,R.D.Rivarola,C.Stia
231	
SA066	MEASUREMENT OF THE TOTAL CROSS SECTION FOR ELECTRON-IMPACT ON CS
3.3	USING COLD TRAPPED ATOMS
232	D.M.B.P.Milori,J.R.Garbin,A.M.Tuboy,V.S.Bagnato

SA067 3.3 233	OBSERVATION OF NEGATIVE-ION RESONANCES IN ELECTRON-IMPACT CORE EXCITATION OF LITHIUM A.A.Borovik,V.N.Krasilinec,O.I.Zatsarinny
SA068 3.3 234	ON THE ROLE OF 3P ⁶ SUBSHELL IN THE VUV SPECTRUM EXCITATION BY ELECTRON-ZINC ATOM COLLISIONS G.Bogachev
SA069 4.2 297	THE MIDDLE ULTRAVIOLET-VISIBLE SPECTRUM OF H ₂ EXCITED BY ELECTRON IMPACT G.K.James,J.M.Ajello,W.R.Pryor
SA070 4.2 298	HIGH RESOLUTION EMISSION SPECTROSCOPY OF THE A ¹ Π- ¹ Σ ⁺ FOURTH POSITIVE BAND SYSTEM OF CO FROM ELECTRON IMPACT L.W.Beegle,J.M.Ajello,G.K.James,M.Alvarez,D.Dziczek
SA071 4.2 299	METHOD TO EVALUATE INTEGRAL CROSS SECTIONS FOR ELECTRON-MOLECULAR SCATTERING Z.Chen,A.Z.Msezane
SA072 4.2 300	DOUBLY EXCITED STATES OF MOLECULAR NITROGEN AS STUDIED BY COINCIDENT ELECTRON-ENERGY-LOSS SPECTROSCOPY T.Odagiri,K.Yoshikawa,N.Kouchi,Y.Hatano
SA073 4.2 301	ELECTRON-IMPACT IONIZATION OF H ₂ M-T.Lee,A.L.Monzani,L.E.Machado,A.M.Machado
SA074 4.2 302	OBSERVATION OF NEUTRAL DOUBLY EXCITED STATES IN THE N ₂ ⁺ 2σ _u PARTIAL CROSS SECTION IN AN (E,2E) EXPERIMENT R.Flammini,E.Fainelli,L.Avaldi
SA075 4.2 303	FRAGMENTATION OF DICATIONS STUDIED BY AUGER ELECTRON-ION COINCIDENCE E.Fainelli,F.Maracci,M.Mastropietro,R.Platania,L.Avaldi
SA076 4.2 304	LASER-PROBED RO-VIBRATIONALLY-SPECIFIC ELECTRON-IMPACT EXCITATION OF H ₂ J.R.Harries,A.J.Murray,P.Hammond
SA077 4.2 305	THE ELECTRON IMPACT EXCITATION OF MOLECULAR HYDROGEN AT 20 EV AND 30 EV X.Guo,D.J.Mathews,G.Mikaelian,M.A.Khakoo,I.Kanik,S.Trajmar
SA078 4.2 306	VIBRATIONAL EXCITATION OF HBR BY ELECTRON IMPACT NEAR THRESHOLD A.-C.Sergenton,M.Allan,D.B.Popovic
SA079 4.4 324	PROPOSED SIMILARITY IN THE RESONANT LOW ENERGY ELECTRON CAPTURE TO NO ₂ AND O ₃ S.A.Rangwala,E.Krishnakumar,S.V.K.Kumar
SA080 4.4 325	DISSOCIATIVE ATTACHMENT OF LOW ENERGY ELECTRONS TO VIBRATIONALLY EXCITED NA ₂ MOLECULES M.Keil,C.Gebauer-Rochholz,O.Kaufmann,W.Meyer,K.Bergmann
SA081 4.4 326	ELECTRON ATTACHMENT TO 1,4-C6F4BRX(X=F,CL,BR) S.Nakagawa,T.Shimokawa
SA082 4.4 327	GAS PHASE METASTABLE FULLERENES ANIONS: C ₇₆ ⁻ AND C ₈₄ ⁻ PRODUCED BY ELECTRON ATTACHMENT (0-15 EV) R.Abouaf,O.Elhamidi,J.Pommier
SA083 4.4 328	VIBRATIONAL FESHBACH RESONANCES IN ELECTRON ATTACHMENT TO MOLECULAR CLUSTERS E.Leber,J.M.Weber,I.I.Fabrikant,A.Gopalan,S.Barsotti,M.-W.Ruf,H.Hotop

SA084 4.4 329	LOW ENERGY DISSOCIATIVE ELECTRON ATTACHMENT TO OZONE G.Senn,N.J.Mason,J.D.Skalny,A.Stamatovic,P.Scheier,T.D.Märk
SA085 4.4 330	DISSOCIATIVE ELECTRON ATTACHMENT TO MOLECULAR CHLORINE AT VERY LOW ENERGIES D.Muigg,G.Denifl,N.J.Mason,E.Illenberger,I.C.Walker,A.Stamatovic,T.D.Märk
SA086 4.4 331	DISSOCIATIVE ELECTRON ATTACHMENT TO OCLO G.Senn,H.Drexel,P.Scheier,N.J.Mason,E.Illenberger,T.D.Märk
SA087 5.2 355	DISTORTED WAVE CALCULATIONS FOR ELECTRON IMPACT IONIZATION OF Si^{4+} AND Si^{5+} H.Teng
SA088 5.2 356	DIRECT AND INDIRECT PROCESSES IN ELECTRON-IMPACT IONIZATION OF LITHIUM-LIKE IONS H.Teng,A.Muler
SA089 5.2 357	ELECTRON IMPACT (E,2E) TRIPLE DIFFERENTIAL IONIZATION CROSS SECTION OF ALKALI IONS Y.Khajuria,D N Tripathi
SA090 5.2 358	SCALING LAW FOR (E,2E) CROSS SECTIONS FOR ISOELECTRONIC ALKALI-LIKE IONS L.U.Ancarani,P.A.Hervieux,B.Najjari
SA091 5.2 359	ELECTRON-IMPACT IONIZATION OF MULTIPLY CHARGED MANGANESE IONS R.Rejoub,R.E.H.Clark,R.A.Phaneuf
SA092 5.2 360	IONIZATION OF GALLIUM IONS BY ELECTRON IMPACT M.Steidl,K.Aichele,U.Hartenfeller,D.Hathiramani,F.Scheuermann,M.Westermann,E.Salzborn
SA093 5.2 361	ELECTRON IMPACT IONIZATION OF C^{Q+} , N^{Q+} AND O^{Q+} IONS F.Scheuermann,K.Aichele,D.Hathiramani,M.Steidl,M.Westermann,E.Salzborn,
SA094 5.2 362	SINGLE AND MULTIPLE IONIZATION OF ALUMINUM IONS BY ELECTRON IMPACT M.Steidl,K.Aichele,U.Hartenfeller,D.Hathiramani,M.S.Pinzola,F.Scheuermann, M.Westermann,E.Salzborn
SA095 5.2 363	ELECTRON-IMPACT IONIZATION OF Mn^{6+} K.Moribayashi,Y.-K.Kim
SA096 5.2 364	IONIZATION CROSS SECTIONS OF Be^{2+} , B^{3+} AND C^{4+} BY ELECTRON IMPACT S.Nasu,S.Nakazaki,K.Berrington
SA097 6.2 447	HIGH-ANGULAR-MOMENTUM ($L \geq 3$) RESONANCE STATES OF POSITRONIUM NEGATIVE ION I.A.Ivanov,Y.K.Ho
SA098 6.2 448	CLOSE COUPLING CALCULATION FOR $E+PS$ SCATTERING A.Igarashi,S.Nakazaki,A.Ohsaki
SA099 6.2 449	POSITRONIUM SCATTERING BY HELIUM J.Blackwood,C.P.Campbell,M.T.McAlinden,H.R.J.Walters
SA100 6.2 450	POSITRONIUM ATOM AND LITHIUM ATOM SCATTERING WITH EXCHANGE INTERACTION Hasi Ray

SA101 6.2 451	INTERFERENCE EFFECTS IN THE DECAY OF RESONANCE STATES IN THREE-BODY COULOMB SYSTEMS O.I.Tolstikhin,I.Yu.Tolstikhina,C.Namba
SA102 6.2 452	NON-ADIABATIC CALCULATION OF ENERGIES AND WIDTHS OF THE RESONANT STATES OF MUONIC HELIUM HYDRIDE IONS Y.Kino,M.Kamimura,H.Kudo
SA103 6.2 453	A TREATMENT OF THE $T\mu + D_2$ REACTION BY THE METHODS OF QUANTUM REACTIVE SCATTERING V.Zeman,E.A.G.Armour,R.T.Pack
SA104 7.1 484	MULTIPLE IONIZATION IN M-, N-, AND O-SHELL IN HEAVY ATOMS BY O, SI AND S IONS D.Banas,J.Braziewicz,T.Czyzewski,M.Jaskóla,W.Kretschmer,A.Kubala-Kukus,U.Majewska,T.Mukoyama,M.Pajek,J.Semaniak
SA105 7.1 485	MEAN RECOIL ION AND ELECTRON LONGITUDINAL MOMENTUM IN THE SINGLE IONIZATION BY PROTON AND ANTIPROTON IMPACT V.D.Rodriguez,P.D.Fainstein
SA106 7.1 486	THOMAS MECHANISM IN ELECTRON CAPTURE TO THE CONTINUUM V.D.Rodriguez,R.O.Barrachina
SA107 7.1 487	IONIZATION OF HYDROGENIC 33-TEV PB IONS IN GAS TARGETS H.F.Krause,C.R.Vane,S.Datz,P.Grafström,H.Knudsen,U.Mikkelsen,C.Scheidenberger,R.H.Schuch,Z.Vilakazi
SA108 7.1 488	LOW-ENERGY TWO CENTER ELECTRONS FROM HEAVY-ION HELIUM COLLISIONS W.Schmitt,R.Moshhammer,H.Kollmus,B.Bapat,M.Schulz,R.Mann,R.Dörner,Th.Weber,A.Cassimi,L.Adoui,J.P.Grandin,S.Hagmann,F.O'Rourke,R.E.Olson,J.Ullrich
SA109 7.1 489	CORRELATED CONTINUUM STATES IN MULTIPLE IONIZATION BY HIGHLY CHARGED ION IMPACT M.Schulz,R.Moshhammer,W.Schmitt,H.Kollmus,R.Mann,S.Hagmann,H.Rothard,R.E.Olson,J.Ullrich
SA110 7.1 490	SIMILARITIES BETWEEN ION-IMPACT AND PHOTO-DOUBLE IONISATION OF HELIUM AT SMALL MOMENTUM TRANSFERS B.Bapat,R.Moshhammer,S.Keller,W.Schmitt,A.Cassimi,L.Adoui,H.Kollmus,R.Dörner,Th.Weber,K.Khsyyat,R.Mann,J.P.Grandin,J.Ullrich
SA111 7.1 491	DIFFERENTIAL ION ENERGY-LOSS IN MULTIPLY IONIZING COLLISIONS M.Schulz,R.Moshhammer,W.Schmitt,H.Kollmus,R.Mann,S.Hagmann,H.Rothard,R.E.Olson,J.Ullrich
SA112 7.1 492	RECOIL-ION MOMENTUM SPECTROSCOPY AT THE EXPERIMENTAL STORAGE RING ESR OF GSI H.Kollmus,R.Moshhammer,W.Schmitt,R.Mann,L.Adoui,A.Cassimi,C.L.Cocke,J.Ullrich
SA113 7.1 493	CONTINUUM ELECTRON MOMENTUM PROFILES FOR MANY BODY CONTINUA PRODUCED IN HEAVY-ION COLLISIONS S.Hagmann,I.Ali
SA114 7.1 494	TWO-AND THREE-BODY EFFECTS IN SINGLE IONIZATION OF LI BY 95 MEV/U AR^{18+} PROJECTILES: ANALOGIES WITH PHOTOIONIZATION N.Stolterfoht,J.-Y.Chesnel,M.Grether,J.A.Tanis,B.Skogvall,F.Frémont,D.Lecler,D.Hennecart,X.Husson,P.Grandin,L.Gulyas,Cs.Koncz,B.Sulik
SA115 7.1 495	AVERAGE CHARGE STATES OF ATOMS WITH $Z=89$ THROUGH 114 IN HYDROGEN F.Sh.Abdullin,Yu.V.Lobanov,Yu.Ts.Oganessian,V.K.Utyonkov,A.N.Polyakov,I.V.Shirokovsky,Yu.S.Tsyganov,S.Iliev,V.G.Subbotin,A.M.Sukhov,G.V.Buklanov,A.N.Mezentsev,K.Subotic,K.J.Moody,J.F.Wild,N.J.Stoyer,M.A.Stoyer,R.W.Lougheed

SA116 7.7 552	TOTAL ELECTRON CAPTURE CROSS SECTIONS IN HIGHLY CHARGED ION-ALKALI METAL ATOM COLLISIONS H.A.Sakaue,H.Tawara,I.Yamada,K.Hosaka,N.Nakamura,S.Ohtani,H.Watanabe,A.Danjo, M.Kimura,A.Matsumoto,M.Sakurai,M.Yoshino
SA117 7.7 553	ELECTRON CAPTURE CROSS SECTIONS IN SLOW, HIGHLY CHARGED ION-ATOM AND -MOLECULE COLLISIONS I.Yamada,A.Danjo,K.Hosaka,M.Kimura,F.Krok,A.Matsumoto,N.Nakamura,S.Ohtani, H.A.Sakaue,M.Sakurai,H.Tawara,H.Watanabe,M.Yoshino
SA118 7.7 554	CLASSICAL TRAJECTORY MONTE CARLO SIMULATIONS FOR CAPTURE PROCESSES: I. INTEGRAL CROSS SECTIONS I.Yamada,K.Hosaka
SA119 7.7 555	CLASSICAL TRAJECTORY MONTE CARLO SIMULATIONS FOR CAPTURE PROCESSES: II. DIFFERENTIAL CROSS SECTIONS K.Hosaka,I.Yamada
SA120 7.7 556	POLARIZATION SPECTROSCOPY OF CHARGE TRANSFER PROCESSES IN COLLISIONS OF HELIUM-LIKE IONS WITH NEUTRAL GASES T.Hayakawa,C.Verzani,H.Watanabe,H.Tanuma,N.Kobayashi
SA121 7.7 557	EJECTED ELECTRON SPECTRA FROM HIGH ENERGY HIGHLY CHARGED OXYGEN IONS IN COLLISIONS WITH ATOMS S.Kitazawa,M.Sataka,H.Tawara,M.Imai,H.Shibata,K.Komaki,K.Kawatsura,Y.Kanai
SA122 7.7 558	ELECTRON SPECTRA FROM HIGHLY EXCITED SULFUR ION STUDIED BY ZERO-DEGREE ELECTRON SPECTROSCOPY M.Imai,K.Kawatsura,M.Sakata,S.Kitazawa,K.Komaki,Y.Yamazaki,H.Tawara,H.Shibata, T.Azuma,Y.Kanai
SA123 7.7 559	ELECTRONS EMITTED FROM 33 TEV PB IONS DURING THE PENETRATION OF SOLID-S S.Datz,P.Grafström,H.Knudsen,H.F.Krause,U.Mikkelsen,S.P.Moller,C.Scheidenberger, R.H.Schuch,E.Uggerhoj,C.R.Vane,Z.Z.Vilakazi
SA124 7.7 560	ELECTRON CAPTURE FROM PAIR PRODUCTION BY 33-TEV PB IONS IN GAS TARGETS H.F.Krause,C.R.Vane,S.Datz,P.Grafström,H.Knudsen,U.Mikkelsen,C.Scheidenberger, R.H.Schuch,Z.Vilakazi
SA125 7.7 561	COUPLED CHANNEL CALCULATION OF BOUND-FREE ELECTRON-POSITRON PAIR PRODUCTION IN COLLISIONS OF HIGHLY CHARGED HEAVY IONS M.Gail,N.Toshima,N.Grüm,W.Scheid
SA126 7.7 562	PAIR-PRODUCTION WITH CAPTURE, AN IMPROVED THEORETICAL DESCRIPTION USING THE RELATIVISTIC CONTINUUM-DISTORTED-WAVE EIKONAL-INITIAL-STATE MODEL R.J.S.Lee,J.V.Mullan,J.F.McCann,D.S.F.Crothers
SA127 9.2 640	AUTOIONIZATION OF NE*(³ P _{2,0})-CH ₃ CL COLLISIONAL COMPLEXES AT THERMAL ENERGIES M.Alberti,B.Brunetti,P.Candori,J.M.Lucas,S.Falcinelli,F.Pirani,M.Stramaccia,M.Rosi, F.Vecchiocattivi
SA128 9.2 641	IONIZATION OF AMMONIA MOLECULES BY COLLISION WITH METASTABLE NEON ATOMS M.Ben Arfa,B.Brunetti,P.Candori,M.Chetid,S.Falcinelli,B.Lescop,D.Malfatti,F.Vecchiocattivi
SA129 9.2 642	DETERMINATION OF PENNING IONIZATION EFFICIENCY IN THE DEEXCITATION OF NE METASTABLE BY SOME MOLECULES T.Sunagawa,H.Shimamori,S.Takamuku
SA130 9.2 643	COLLISIONAL DEEXCITATION CROSS SECTIONS OF NE(¹ P ₁) AND AR(¹ P ₁) BY MOLECULES H.Fukuzawa,N.Kiyoto,T.Hosobuchi,A.Kojima,T.Odagiri,K.Kameta,N.Kouchi,Y.Hatano

SA131 9.2 644	KINEMATICAL TRANSFORMATION OF $BA+CH_3BR/HBR \rightarrow BABR+CH_3/H$ V.Weï-Keh Wu
SA132 9.2 645	REACTION DYNAMICS AND TRANSFORMATION MECHANISM OF $K+DBR/HBR \rightarrow KBR+D/H$ WITHIN $0.1 \text{ eV} \leq E_{REL} \leq 0.25-3.0 \text{ eV}$ V.Weï-Keh Wu
SA133 9.2 646	AB-INITIO CALCULATION OF $BA+HBR \rightarrow [BAHBR] \rightarrow [BABRH] \rightarrow BABR+H$ V.Weï-Keh Wu
SA134 9.2 647	SEMICLASSICAL ANGULAR SCATTERING IN $F+H_2$ REACTION: CAM ANALYSIS USING THE PADE APPROXIMATION D.Sokolovski
SA135 9.2 648	CLASSICAL TRAJECTORY CALCULATIONS OF COLLISION ENERGY DEPENDENCE OF PARTIAL PENNING IONIZATION CROSS SECTIONS T.Ogawa,K.Ohno
SA136 9.2 649	RADIATIVE LIFETIME MEASUREMENT OF THE $A^3\Sigma^+$ METASTABLE STATE OF NO^+ USING A LINEAR ELECTROSTATIC ION TRAP R.Wester,K.G.Bhushan,N.Altstein,D.Zajfman
SA137 11 663	SIZE-DEPENDENT AND TIME-DEPENDENT CATALYTIC PROPERTIES OF POTENTIAL MICROWELL AND THE PROBLEM OF ATOM-ATOM INELASTIC COLD COLLISION IN SUCH A MICROWELL V.I.Vysotskii
SA138 11 664	THE MAPPED DVR METHOD FOR PHOTOASSOCIATION SPECTROSCOPY I. THEORY V.Kokoouline,O.Dulieu,R.Kosloff,F.Masnou-Seeuws
SA139 11 665	THE MAPPED DVR METHOD FOR PHOTOASSOCIATION SPECTROSCOPY II. APPLICATION TO PERTURBATIONS AND PREDISSOCIATION IN RB_2 AND CS_2 SPECTRA V.Kokoouline,O.Dulieu,R.Kosloff,F.Masnou-Seeuws
SA140 11 666	DIRECT MEASUREMENT OF FINE STRUCTURE CHANGING COLLISION IN COLD RB : INTENSITY DEPENDENCE M.Mancini,K.M.F.Magalhães,A.L.Oliveira,L.G.Marcassa
SA141 11 667	LIFETIME MEASUREMENTS OF RYDBERG STATES USING A SAMPLE OF COLD ATOM- S A.L.Oliveira,R.A.D.S.Zanon,K.M.F.Magalhães,L.G.Marcassa
SA142 11 668	EXOERGIC COLD COLLISIONS IN ALKALI MIXTURE G.D.Telles,S.R.Muniz,A.Antunes,P.Cardona,M.S.Santos,L.G.Marcassa,V.S.Bagnato
SA143 11 669	VERY LOW ENERGY ION-RECOIL MEASUREMENTS USING LASER-COOLED ATOMS S.Wolf,S.Nussmann,H.Helm
SA144 11 670	SEARCH FOR COLD RB_2 MOLECULES IN A RUBIDIUM MAGNETO-OPTICAL TRAP C.Gabbanini,A.Fioretta,S.Gozzini,A.Lucchesini
SA145 11 671	THEORY OF THE RECOMBINATION OF IDENTICAL BOSONS BY THREE-BODY COLLISIONS E.Nielsen,J.H.Macek
SA146 11 672	ANALYTICAL CALCULATION OF COLD ATOM SCATTERING V.V.Flambaum,G.F.Gribakin,C.Harabati
SA147 13.1 700	EMISSION INTENSITY OF THE RESONANCE LINE OF AL ATOM SPUTTERED FROM AN OXYGEN COVERED AL SURFACE WITH 40 KEV AR^+ BOMBARDMENT T.Nimura,R.Wada,S.Tsurubuchi

SA148 13.1 701	SPUTTER MECHANISM FROM MGO(001) SURFACE BY LOW ENERGY ION INCIDENT T.Sato,S.Takagi,T.Gotoh
SA149 13.1 702	EMISSION OF SECONDARY IONS FROM CONDUCTIVE MATERIALS BOMBARDED WITH HIGH ENERGY HEAVY IONS T.Sekioka, M.Terasawa, M.Sataka, S.Kitazawa, M.Niibe
SA150 13.1 703	IDENTIFICATION OF MECHANISMS FOR POTENTIAL SPUTTERING OF LIF SURFACES G.Hayderer,C.Lemell,L.Wirtz,M.Schmid,J.Burgdörfer,P.Varga,HP.Winter,F.Aumayr
SA151 13.1 704	THEORETICAL ANALYSIS FOR STABILIZATION PROCESSES OF RARE-GAS HOLLOW ATOMS K.Suto,T.Kagawa
SA152 13.1 705	CASCADE FILLING OF HOLLOW ATOMS PRODUCED WITH MICRO-CAPILLARY TARGETS R.Hutton,S.Thuriez,Y.Iwai,Y.Kanai,H.Oyama,H.Masuda,Y.Yamazaki
SA153 13.1 706	HIGH-RESOLUTION STUDIES OF LIGHT HOLLOW ATOMS CREATED USING A MICRO-CAPILLARY TARGET S.Thuriez,Y.Iwai,Y.Kanai,H.Oyama,R.Hutton,H.Masuda,Y.Yamazaki
SA154 13.1 707	TRANSMISSION OF HIGHLY CHARGED IONS THROUGH MICROCAPILLARIES K.Tökési,L.Wirtz,C.Lemell,J.Burgdörfer
SA155 13.1 708	INFLUENCE OF HOLE PRODUCTION ON SCATTERING OF SLOW HIGHLY CHARGED IONS AT INSULATOR SURFACES L.Wirtz,L.Hägg,C.O.Reinhold,J.Burgdörfer
SA156 13.1 709	A MANY-BODY CLASSICAL TRAJECTORY MONTE CARLO METHOD FOR THE STUDY OF ION-SURFACE COLLISIONS J.A.Perez,R.E.Olson
SA157 13.1 710	AB INITIO ION-SURFACE CALCULATIONS; A FIRST STEP TOWARDS TIME-DEPENDENT COUPLED CHANNEL CALCULATIONS D.Geschke,S.Varga,J.Anton,S.Fritzsche,W.-D.Sepp,A.Heitmann,B.Fricke
SA158 13.1 711	ELECTRON SPECTRA FROM 17 EV TO 170 KEV AR ¹⁷⁺ INTERACTING WITH A SI SURFACE N.Stolterfoht,M.Grether,D.Niemann,V.Hoffmann
SA159 13.1 712	HOLLOW ATOM DYNAMICS AT C ₆₀ COVERED SURFACES C.Laulhé,S.Hoekstra,H.Khemliche,T.Sclathölter,A.Närmann,R.Hoekstra,R.Morgenstern
SA160 13.1 713	BINARY-ELECTRON EMISSION IN GRAZING COLLISIONS OF IONS ON SNTE SURFACES M.S.Gravielle
SA161 13.1 714	EMERGING CHARGE STATE AFTER GRAZING COLLISIONS OF IONS ON SNTE SURFACES C.C.Montanari,M.S.Gravielle,J.E.Miraglia
SA162 16 765	TOWARDS CONTROL OF COLD MOLECULE FORMATION. THE PHOTOASSOCIATION PROCESS J.Vala,O.Dulieu,F.Masnou-Seeuws,P.Pillet,R.Kosloff
SA163 16 766	DISSOCIATIVE MULTIPLE IONISATION OF CD ₄ BY SLOW, HIGHLY-CHARGED IONS F.A.Rajgara,T.Nishide,T.Kitamura,H.Shiromaru,Y.Achiba,N.Kobayashi
SA164 16 767	LIFETIMES OF PREDISSOCIATIVE AND RADIATIVE DECAYS IN THE E ³ Σ _U ⁺ AND D ³ Π _U ⁻ STATES OF H ₂ AND D ₂ T.Kiyoshima,S.Sato,S.O.Adamson,E.A.Pazyuk,A.V.Stolyarov

MONDAY, 26 July

MO001	DYNAMICAL SPIN POLARIZATION OF PHOTOELECTRONS EMITTED FROM THE XE 5P SUBSHELL BETWEEN 50 EV AND 150 EV
1.1	B.Zimmermann,G.Snell,B.Schmidtke,M.Drescher,J.Viefhaus,N.A.Cherepkov,N.Müller,U.Heinzmann,U.Becker
41	
MO002	LINEAR MAGNETIC DICHROISM IN THE TL 5D AND 6P PHOTOELECTRON ANGULAR DISTRIBUTION
1.1	G.Prümper,B.Zimmermann,N.A.Cherepkov,B.Langer,U.Becker,H.Kleinpoppen
42	
MO003	A NEW RESONANCE IN AUTOIONIZATION OF CA
1.1	B.II Nam,Y.S.Kim
43	
MO004	CROSS SECTIONS, CROSS SECTION RATIOS AND MAGNETIC SUBSTATE CROSS SECTIONS FOR RESONANCE ENHANCED $AR^+-4P^2, ^4L_J$ SATELLITES
1.1	K.-H.Schartner,G.Mentzel,B.Zimmermann,O.Wilhelmi,H.Schmoranzner,F.Vollweiler,St.Lauer,H.Liebel,V.L.Sukhorukov,B.M.Lagutin,Ph.V.Demekhin,I.D.Petrov
44	
MO005	INNERVALENCE SHELL SATELLITES ABOVE THE AR^{2+} THRESHOLD: EXCITATION AND DECAY
1.1	F.C.Farnoux
45	
MO006	SUM RULES AND SPECTRAL PATTERNS OF DICHROISM IN INNER-SHELL PHOTOELECTRON SPECTRA
1.1	A.Verweyen,A.N.Grum-Grzhimailo,N.M.Kabachnik
46	
MO007	OBSERVATION AND CHARACTERISATION OF THE FLUORESCENCE DECAY OF THE $2S2P^6(^2S)NP\ ^1P^o$ EXCITED STATES OF NE
1.1	P.Lablanquie,F.Penent,R.I.Hall,J.H.D.Eland,L.Avaldi,R.Camilloni,S.Stranges,M.Coreno,K.C.Prince,P.Bolognesi,D.Cooper,G.C.King,A.Muehleisen,M.Zitnik
47	
MO008	COINCIDENT AUGER/THRESHOLD-PHOTOELECTRON SPECTROSCOPY APPLIED TO THE STUDY OF $Kr(3D^{-1})$ AUGER TRANSITIONS
1.1	Y.Hikosaka,R.I.Hall,F.Penent,P.Lablanquie,K.Ito
48	
MO009	SUB-NATURAL LINEWIDTH COINCIDENT AUGER SPECTROSCOPY: APPLICATION TO $AR\ L_1L_{2,3}M_{1,2,3}$ COSTER-KRONIG TRANSITIONS
1.1	F.Penent,P.Lablanquie,R.I.Hall,M.Ahmad,S.Diehl,H.Kjeldsen,J.H.D.Eland,K.Ito,Y.Hikosaka,A.Muehleisen,P.Pelicon,Z.Smit,M.Zitnik,F.Koike
49	
MO010	HIGH RESOLUTION THRESHOLD PHOTOELECTRON COINCIDENCE SPECTROSCOPY AT ELETTRA
1.1	F.Penent,P.Lablanquie,R.I.Hall,J.H.D.Eland,L.Avaldi,R.Camilloni,S.Stranges,M.Coreno,K.C.Prince
50	
MO011	HIGH RESOLUTION (6–12 MEV) THRESHOLD PHOTOELECTRON SPECTROSCOPY OF ARGON FROM 28 TO 49 EV
1.1	M.C.A.Lopes,A.J.Yencha,G.C.King,J.D.Bozek,N.Berrah
51	
MO012	THRESHOLD PHOTOELECTRON-THRESHOLD PHOTOELECTRON COINCIDENCE (TPESCO) STUDIES IN THE REGION OF THE $Kr3D$ SHAKE UP SATELLITES
1.1	P.Bolognesi, M.C.A.Lopes, M.A.MacDonald, G.C.King, L.Avaldi, G.dawber
52	
MO013	ABSOLUTE PHOTOIONIZATION CROSS SECTION FOR C^+
1.2	F.Folkmann,J.E.Hansen,H.Kjeldsen,H.Knudsen,M.S.Rasmussen,J.B.West,T.Andersen
74	
MO014	THEORETICAL STUDY OF THE $2S2P^4$ RESONANCE STATE IN THE PHOTODETACHMENT OF C^- BY THE R-MATRIX METHOD
1.2	N.Miura,F.Sasaki,T.Noro
75	
MO015	STUDIES OF DOUBLY EXCITED STATES AND PHOTODETACHMENT IN NEGATIVE IONS
1.2	E.Lindroth,N.Brandefelt
76	

MO016	PHOTODETACHMENT FROM THE IN^- NEGATIVE ION
1.2	A.N.Ipatov, V.K.Ivanov
77	
MO017	MONOCHROMATIC RADIATION BY ATOMIC IONS MOVING IN A MAGNETIC FIELD
1.2	V.S.Melezhik
78	
MO018	TIME-DEPENDENT APPROACH FOR QUANTUM DYNAMICS OF IONS AND EXOTIC SYSTEMS IN EXTERNAL FIELDS
1.2	V.S.Melezhik
79	
MO019	PHOTODETACHMENT STUDIES OF ALKALI NEGATIVE IONS
1.2	K.Andersson, D.Hanstorp, G.Haeffler, J.Sandström, U.Berzinsh, I.Yu.Kiyan, D.J.Pegg
80	
MO020	PHOTOELECTRON ANGULAR DISTRIBUTION MEASUREMENTS IN MOLECULAR OXYGEN USING THE MAGNETIC ANGLE-CHANGING TECHNIQUE
1.3	D.Cubric, A.Juarez, F.H.Read, G.C.King
106	
MO021	MULTICHANNEL DISSOCIATION IN RESONANT PHOTOIONIZATION OF H_2 AND D_2
1.3	I.Sánchez, F.Martín
107	
MO022	SUPEREXCITED STATES OF THE HYDROGEN MOLECULE LYING BELOW THE THIRD IONIZATION LIMIT
1.3	S.Uramoto, I.Shimamura, H.Sato
108	
MO023	CALCULATIONS OF PHOTOIONIZATION OF N_2 MOLECULES IN THE RPA APPROXIMATION
1.3	S.K.Semenov, N.A.Cherepkov, G.H.Fecher, G.Schönhense
109	
MO024	DISSOCIATIVE DOUBLE IONIZATION OF O_2 BELOW THE ADIABATIC DOUBLE IONIZATION POTENTIAL
1.3	P.Bolognesi, D.B.Thompson, L.Avaldi, M.C.A.Lopes, M.A.MacDonald, D.R.Cooper, G.C.King
110	
MO025	ANGLE RESOLVED PHOTOELECTRON SPECTROSCOPY OF $\text{O}_2(\text{A}^1\Delta_{\text{g}})$ WITH SYNCHROTRON RADIATION
1.3	A.De Fanis, L.Beeching, J.M.Dyke, S.D.Gamblin, N.Hooper, A.Morris, J.B.West
111	
MO026	QUASI-ISOTROPIC FRAGMENTATION OF PF_5 FOLLOWING P 2P PHOTOABSORPTION
1.3	K.Ueda, Y.Muramatsu, Y.Shimizu, H.Chiba, Y.Sato, M.Kitajima, H.Tanaka, H.Nakamatsu
112	
MO027	ANISOTROPIC FRAGMENTATION OF CF_4 FOLLOWING F 1S PHOTOABSORPTION
1.3	Y.Muramatsu, K.Ueda, Y.Shimizu, H.Chiba, Y.Sato, H.Nakamatsu
113	
MO028	CORRELATION BETWEEN ELECTRON EMISSION AND FRAGMENTATION INTO IONS FOLLOWING B 1S EXCITATION OF THE BCL_3 MOLECULE
1.3	Y.Shimizu, K.Ueda, H.Chiba, Y.Sato, M.Kitajima, H.Tanaka
114	
MO029	MOLECULAR DEFORMATION OF B 1S CORE-EXCITED STATES OF BCL_3 PROBED BY ANGLE-RESOLVED ION YIELD SPECTROSCOPY
1.3	Y.Shimizu, K.Ueda, H.Chiba, Y.Sato, M.Izumisawa, T.Hayaishi, M.Kitajima, H.Tanaka
115	
MO030	THE POSSIBILITY OF GENERAL MQDT PARAMETER DETERMINATION FROM HIGH RESOLUTION OPTICAL SPECTRA
1.4	M.G.Golubkov, G.V.Golubkov, G.K.Ivanov
116	
MO031	PRECISION MEASUREMENTS AND PREDICTIONS FOR ELASTIC AND INELASTIC PHOTON SCATTERING FROM NEON
1.4	J.P.J.Carney, R.H.Pratt, R.W.Dunford, E.P.Kanter, B.Krässig, S.H.Southworth, L.Young, R.A.Bonham, P.Lykos
117	
MO032	AN INVESTIGATION INTO THE DEPENDENCE OF ELASTIC PHOTON-ATOM SCATTERING ON TARGET POLARIZATION AND ENERGY RESOLUTION
1.4	J.P.J.Carney, R.H.Pratt
118	

MO033 1.4 119	CIRCULAR DICHROISM EFFECTS IN ATOMIC X-RAY SCATTERING N.L.Manakov,A.V.Meremianin,A.Maquet,J.P.J.Carney,R.H.Pratt
MO034 1.4 120	PHOTODETACHMENT OF THE CA ⁻ ION D.H.Lee,M.B.Poston,D.Hanstorp,U.Berzinsh,D.J.Pegg
MO035 1.4 121	R-MATRIX PHOTODETACHMENT CROSS SECTION OF SR ⁻ IONS J.Yuan
MO036 1.4 122	IDENTIFICATION OF TWO-ELECTRON RESONANCES IN HE ⁻ PHOTODETACHMENT C.N.Liu,A.F.Starace
MO037 1.4 123	R-MATRIX CALCULATION OF THE PHOTODETACHMENT OF HE ⁻ 1S2S2P ⁴ P IN THE REGION OF THE 1S THRESHOLD H.L.Zhou,S.T.Manson,L.VoKy,A.Hibbert,K.A.Berrington
MO038 1.4 124	THEORETICAL STUDY ON THE PHOTODETACHMENT OF I ₂ ⁻ AND DISSOCIATIVE ATTACHMENT TO I ₂ Y.Asano,S.Yabushita
MO039 1.4 125	FINE-STRUCTURE ENERGY LEVELS OF PHOSPHOROUS-LIKE IRON N.C.Deb,A.Z.Msezane
MO040 2.1 151	IONIZATION DYNAMICS OF MOLECULAR HYDROGEN IN STRONG LASER FIELDS V.Schyja,C.Schellhammer,A.Hielscher,H.Helm
MO041 2.1 152	TWO-PHOTON DETACHMENT FROM HALOGEN NEGATIVE IONS G.F.Gribakin,V.K.Ivanov,A.V.Korol,M.Yu.Kuchiev
MO042 2.1 153	CROSS SECTION OF THE THIRD HARMONIC GENERATION OF FLUORINE NEGATIVE ION V.K.Ivanov,A.V.Korol,M.Yu.Kuchiev
MO043 2.1 154	DYNAMICAL STABILIZATION OF THE KICKED HYDROGEN ATOM S.Yoshida,C.O.Reinhold,P.Kristöfel,J.Burgdörfer,S.Watanabe,F.B.Dunning
MO044 2.1 155	R-MATRIX STUDY OF PRODUCT-CONTROL VIA INTERFERING IONIZATION ROUTES IN BARIUM M.Aymar,E.Luc-Koenig,J.M.Lecomte,M.Millet,A.Lyras
MO045 2.1 156	LASER EXCITATION OF ANGULAR RYDBERG WAVEPACKETS H.M.Nilsen,J.P.Hansen,L.B.Madsen
MO046 2.1 157	EFFECT OF AUTOIONIZATION ON (1+2)-PHOTON ABOVE-THRESHOLD IONIZATION OF H ₂ MOLECULES K.Rai Dastidar,R.K.Das
MO047 2.1 158	DEPLETION OF HARMONIC OSCILLATOR STATES BY PERIODIC KICKS N.Sato,S.Watanabe,M.Matsuzawa,S.Yoshida,C.O.Reinhold,J.Burgdörfer
MO048 2.1 159	STUDY OF THE DEGRADATION OF AROMATIC HYDROCARBONS USING A PYROLYSIS CELL COUPLED TO A TIME-OF-FLIGHT MASS SPECTROMETER (T.O.F.-M.S.) L.F.Casinhas,M.L.F.Monteiro,D.Liang,U.Boesl
MO049 2.1 160	QUANTITATIVE ANALYSIS OF MULTIPHOTON ABSORPTION IN SF ₆ -N ₂ MIXTURES D.D.Markusev,J.Jovanovic-Kurepa,M.Terzic

MO050 2.1 161	A STUDY OF THE TIME EVOLUTION OF RESONANCE STATES IN ATOMIC POTASSIUM USING ULTRASHORT LASER PULSES E.Sokell,S.Zamith,V.Blanchet,M.A.Bouchene,G.Girard
MO051 2.1 162	2D ION IMAGING OF MULTIELECTRON DISSOCIATIVE IONIZATION OF MOLECULES T.Suzuki,H.Li
MO052 3.2 194	SPIN AND ORBITAL ANGULAR MOMENTUM EFFECTS IN THE (E,2E) IONIZATION OF SODIUM A.Elliott,J.Lower,E.Weigold
MO053 3.2 195	ELECTRON EXCHANGE AND SPIN-ORBIT EFFECTS IN THE EXCITATIONS OF INERT GASES BY POLARIZED ELECTRONS D.H.Yu,P.A.Hayes,X.J.Chen,J.F.Williams
MO054 3.2 196	SIMULTANEOUS IONIZATION AND EXCITATION TO THE $KR^{2+} 4P_{5/2}$ BY ELECTRON IMPACT P.A.Hayes,X.J.Chen,D.H.Yu,J.F.Williams
MO055 3.2 197	RESONANCE (E,2E) IONIZATION AT LOW ENERGIES V.V.Balashov,A.N.Grum-Grzhimailo
MO056 3.2 198	SPIN-RESOLVED ELASTIC SCATTERING OF ELECTRONS FROM MANGANESE ATOMS R.Meintrup,G.F.Hanne
MO057 3.2 199	STUDY OF SPIN POLARIZATION IN ELASTIC SCATTERING OF ELECTRONS FROM EU,YB, BI, RN AND RA ATOMS Neerja,A.N.Tripathi,A.K.Jain
MO058 3.2 200	EXCITATION OF H(2P) BY ELECTRON IMPACT H.A.Yalim,D.Cvejanovic,A.Crowe
MO059 3.2 201	NEAR THRESHOLD EXCITATION OF HELIUM 3^3D BY ELECTRON IMPACT A.Crowe,D.Cvejanovic,D.T.McLaughlin,B.P.Donnelly,D.Fursa,I.Bray,K.Bartschat
MO060 3.2 202	POLARIZATION OF THE $3^3D \rightarrow 2^3P$ LINE OF HELIUM EXCITED BY ELECTRON IMPACT D.Cvejanovic,K.Clague,A.Crowe,K.Bartschat,I.Bray,D.Fursa
MO061 3.2 203	CORRELATION STUDIES OF SIMULTANEOUS EXCITATION-IONIZATION IN HELIUM M.Dogan,A.Crowe
MO062 3.2 204	A STUDY OF ANGULAR CORRELATION PARAMETERS USING A DISTORTED WAVE MODEL C.S.Singh
MO063 3.3 235	RESONANCE EFFECTS IN THE ELECTRON-IMPACT EXCITATION OF MG ATOM V.Gedeon,V.Lengyel,T.Zatsarinnaja
MO064 3.3 236	DOUBLE AND TRIPLE-COINCIDENCE IONIZATION STUDIES FOR ELECTRON IMPACT ON ARGON R.D.DuBois,C.Hartman
MO065 3.3 237	SMALL-ANGLE ELECTRON DIFFERENTIAL CROSS SECTIONS FOR OPTICALLY FORBIDDEN TRANSITIONS P.A.Ozimba,A.Z.Msezane
MO066 3.3 238	REGGE POLE NORMALIZATION OF RELATIVE ELECTRON DIFFERENTIAL CROSS SECTIONS A.Z.Msezane,N.Embaye,P.Ozimba,Z.Felfli,D.Bessis

MO067	SINGLE IONIZATION OF AR(2P) STATE BY ELECTRON AND ANTIPROTON IMPACT
3.3	K.Tökési,L.Gulyás,B.Paripás,A.Hiltunen,G.Viktor
239	
MO068	BREMSSTRAHLUNG CALCULATION IN THE 'STRIP' APPROXIMATION
3.3	A.V.Korol,A.G.Lyalin,A.V.Solov'yov
240	
MO069	MEASUREMENTS OF SCATTERING PARAMETERS OF THE HE(4 ¹ , ³ F) STATE
3.3	H.K.Rose,A.G.Mikosza,J.F.Williams
241	
MO070	MEASUREMENTS OF ELECTRON-IMPACT IONIZATION CROSS SECTIONS OF ARGON, KRYPTON, AND XENON BY COMPARISON WITH PHOTOIONIZATION
3.3	A.A.Sorokin,L.A.Shmaenok,S.V.Bobashev,M.Richter,G.Ulm
242	
MO071	MONTE CARLO CALCULATION OF ELECTRON COLLISIONS ON HIGHLY EXCITED HYDROGEN ATOMS
3.3	K.Kawakami,A.Tanaka,T.Imaida,T.Fujimoto
243	
MO072	FIRST MEASUREMENTS OF TRIPLY EXCITED HELIUM NEGATIVE ION RESONANCES IN THE COMPLETE ANGULAR RANGE FROM 0° TO 180°
3.3	D.Cubric,R.R.A.Ward,G.C.King,F.H.Read
244	
MO073	ON THE TRIPLE COINCIDENCE (E,2E γ) MEASUREMENTS IN ELECTRON-IMPACT IONIZATION-EXCITATION STUDIES
3.3	V.V.Balashov,I.V.Bodrenko
245	
MO074	DOUBLE IONIZATION OF HELIUM BY FAST ELECTRON IMPACT
3.3	A.Dorn,R.Moshhammer,C.D.Schröter,T.J.M.Zouros,W.Schmitt,H.Kollmus,R.Mann,J.Ulrich
246	
MO075	QUANTUM EFFECTS AND THE ROLE OF THE POTENTIAL RIDGE IN IONIZATION THRESHOLD LAW
3.3	N.Miyashita,D.Kato,S.Watanabe,M.Matsuzawa,J.H.Macek
247	
MO076	SEMI-EMPIRICAL CALCULATION FOR IONIZATION OF HELIUM BY ELECTRON IMPACT
3.3	A.P.Chahad,R.S.Barbieri
248	
MO077	INTEGRATED CROSS SECTIONS FOR ELECTRON SCATTERING FROM THE GROUND STATE OF BARIUM
3.3	D.V.Fursa,S.Trajmar,I.Bray,I.Kanik,J.Abdallah Jr.,R.E.H.Clark,G.Csanak
249	
MO078	(E,2E) MEASUREMENTS FOR VALENCE AND INNER VALENCE ORBITALS OF N ₂ O
4.3	S.J.Cavanagh,B.Lohmann
307	
MO079	ELECTRON MOMENTUM PROFILES OF π ORBITALS OF 1,4-DIAZABICYCLO[2.2.2]OCTANE: DIRECT EXPERIMENTAL EVIDENCE OF THE THROUGH-BOND INTERACTION
4.3	M.Takahashi,M.Matsuo,Y.Udagawa
308	
MO080	INELASTIC X-RAY SCATTERING AND ELECTRON CORRELATION EFFECTS
4.3	Neerja,A.N.Tripathi,A.K.Jain,J.Wang,V.H.Smith Jr
309	
MO081	ELECTRON SCATTERING FROM WATER MOLECULES
4.3	A.El-Zein,M.J.Brunger,W.R.Newell
310	
MO082	THEORETICAL STUDY OF ELECTRON SCATTERING FROM CARBON DIOXIDE: EXCITATION OF BENDING VIBRATION
4.3	M.Takekawa,Y.Itikawa
311	
MO083	IONIZING IMPACT OF ELECTRONS ON H ₂ O(ICE) AND H ₂ O(LIQ)
4.3	K.N.Joshiyura,M.Vinodkumar
312	

MO084 4.3 313	VARIOUS TOTAL CROSS-SECTIONS FOR ELECTRON COLLISIONS WITH CH_N - RADICALS AND HIGHER HYDROCARBONS K.N.Joshi, M. Vinodkumar
MO085 4.3 314	INVESTIGATION OF DIFFERENT MOLECULAR ORBITAL MODELS (LMOS, CMOS AND KSOS) BY ELECTRON MOMENTUM SPECTROSCOPY Y.Zheng, C.E.Brion, G.Cooper, J.Rolke, Z.Shi, S.Wolfe, E.R.Davidson
MO086 5.2 365	TRIPLE DIFFERENTIAL CROSS SECTIONS FOR (E,2E) ELECTRON IMPACT IONIZATION OF C^{2+} IONS H.Kollmus, S.Hagmann, R.Moshammer, R.Mann, W.Schmitt, H.Braeuning, M.Schulz, Ch.Kozhuharov, J.Ullrich
MO087 5.2 366	DOUBLE IONIZATION OF HE-LIKE IONS BY ELECTRONS: I. ANALYTICAL EXPRESSION FOR THE 8DCS P.Defrance, T.M.Kereselidze, Z.S.Machavariani
MO088 5.2 367	DOUBLE IONIZATION OF HE-LIKE IONS BY ELECTRONS: II. ANALYTICAL EXPRESSION FOR THE 4DCS P.Defrance, T.M.Kereselidze, Z.S.Machavariani
MO089 5.2 368	DOUBLE IONIZATION OF HE-LIKE IONS BY ELECTRONS: III. UNIVERSAL FORMULA FOR THE TOTAL CROSS SECTION P.Defrance, T.M.Kereselidze, Z.S.Machavariani
MO090 5.2 369	DOUBLE IONISATION OF H^- BY FAST ELECTRON IMPACT C.Sinha
MO091 5.2 370	A STUDY OF THE ELECTRON IMPACT IONISATION OF Li^+ AND Ca^+ USING THE R-MATRIX WITH PSEUDOSTATES METHOD G.J.N.Brown, M.P.Scott, K.A.Berrington, P.G.Burke
MO092 5.2 371	ELECTRON IMPACT SINGLE IONIZATION OF Ni^{Q+} ($Q=10,13$ AND 15) S.Cherkani-Hassani, P.Defrance, M.Khouilid
MO093 5.2 372	ABSOLUTE CROSS SECTIONS FOR ELECTRON IMPACT IONIZATION AND DISSOCIATION OF N_2^+ MOLECULAR ION D.S.Belic, J.Jureta, E.M.Bahati, H.H.Cherkani, M.O.Abdellahi, P.Defrance
MO094 5.2 373	TOWARDS MEASUREMENTS OF ELECTRON IMPACT IONISATION CROSS-SECTIONS OF HIGHLY CHARGED KRYPTON IONS H.Watanabe, F.J.Currell, H.Kuramoto, S.Ohtani, E.Sokell
MO095 5.2 374	THE USE OF AN ELECTRON BEAM ION TRAP (EBIT) TO MEASURE ELECTRON IM- PACT IONISATION CROSS-SECTIONS FOR HIGHLY CHARGED ARGON IONS E.Sokell, F.J.Currell, S.Ohtani, H.Shimizu, H.Watanabe
MO096 5.2 375	A NEW TECHNIQUE TO MEASURE ELECTRON IMPACT IONISATION CROSS SECTIONS FOR HIGHLY CHARGED IONS F.J.Currell, H.Kuramoto, S.Ohtani, H.Shimizu, E.Sokell, H.Watanabe
MO097 5.2 376	ELECTRON IMPACT DISSOCIATION OF CO_2^+ TO C^+ AND O^+ P.Defrance, E.Bahati, H.H.Cherkani, J.Jureta
MO098 5.2 377	TOTAL CROSS SECTIONS FOR ELECTRON IMPACT IONIZATION OF He^+ N.C.Deb, M.Bhattacharya, P.S.Mazumdar, A.Z.Msezane
MO099 6.1 409	THE COUPLED-CHANNELS-OPTICAL METHOD FOR POSITRON-HYDROGEN ATOM S- CATTERING K.Ratnavelu, K.Rajagopal
MO100 6.1 410	CONVERGENT CLOSE-COUPPLING CALCULATIONS OF POSITRON-HYDROGEN S-WAVE MODEL A.Kadyrov, I.Bray

MO101	ANALYSIS OF POSITRON-HYDROGEN COLLISIONS USING EFFECTIVE RANGE THEORIES
6.1	S.J.Ward,J.H.Macek
411	
MO102	POSITRONIUM FORMATION WITH IONIC TARGETS USING A LEAST-SQUARES APPROACH
6.1	B.H.Brandsen,C.J.Noble,R.J.Whitehead
412	
MO103	RESONANCES IN $E^+ + HE^+$ SYSTEM
6.1	A.Igarashi,A.Ohsaki,S.Nakazaki
413	
MO104	POSITRON-HELIUM SCATTERING AT MEDIUM ENERGIES USING CLOSE-COUPPLING APPROXIMATION
6.1	P.Chaudhuri,S.K.Adhikari
414	
MO105	EFFECT OF ELECTRON CORRELATION ON POSITRONIUM FORMATION IN POSITRON-HELIUM SCATTERING
6.1	P.Chaudhuri,S.K.Adhikari,B.Talukdar,S.Bhattacharya
415	
MO106	THEORETICAL STUDIES OF LOW ENERGY POSITRON SCATTERING BY AN EQUIVALENT ONE-ELECTRON MODEL OF HELIUM
6.1	J.T.Dunn,P.Van Reeth,J.W.Humberston
416	
MO107	THEORETICAL STUDIES OF THRESHOLD FEATURES IN THE CROSS SECTIONS FOR LOW ENERGY $E^+ - H$ AND $E^+ - H E$ SCATTERING
6.1	P.Van Reeth,J.W.Humberston
417	
MO108	TOTAL CROSS SECTIONS FOR LOW ENERGY $E^+ - H E$ SCATTERING
6.1	P.Van Reeth,J.W.Humberston
418	
MO109	SELF-CONSISTENT FIELD THEORY OF COLLISIONS
6.1	E.Zerrad,Y.Hahn
419	
MO110	ELASTIC SCATTERING OF SLOW POSITRONS BY ATOMS
6.1	M.Ya.Amusia,N.A.Cherepkov,L.V.Chernysheva
420	
MO111	SINGLE AND DOUBLE EXCITATION OF LIGHT ATOMS INDUCED BY FAST PROTONS AND ANTIPROTONS
7.2	L.Nagy,S.Fritzsche
496	
MO112	LONG-LIVED STATES OF N_2 :FORMATION, LIFETIMES AND IDENTITY
7.2	T.Andersen,K.A.Bertelsen,J.Olsen,M.Raarup,N.Rud,L.Veseth
497	
MO113	STUDY OF TWO-ELECTRON TRANSITIONS INDUCED IN FAST COLLISIONS OF CHARGED PARTICLES WITH HELIUM
7.2	V.A.Sidorovich
498	
MO114	THE PROJECTILE INFLUENCE ON THE EXCITATION ENERGY OF $(2S^2)^1S$ HELIUM RESONANCE IN ION-ATOM COLLISIONS
7.2	N.V.Novikov,V.S.Senashenko
499	
MO115	ELECTRON CAPTURE AND EXCITATION CROSS SECTIONS IN THE INTERMEDIATE VELOCITY REGIME OF $H^+, HE^+ - NA(3S), NA^*(3P)$ COLLISIONS
7.2	R.Okasaka,K.Naemura,Y.Seo,S.Tojo,Y.Matsumura
500	
MO116	EXCITATION PROCESSES IN MODERATE-ENERGY $K^+ - NE$ COLLISIONS
7.2	S.Kita,S.Gotoh,N.Shimakura,B.I.Kikiani
501	
MO117	EXCITATION PROCESSES IN THE $NA^+ - HE, AR, KR$ COLLISIONS
7.2	M.R.Gochitashvili,B.I.Kikiani,R.V.Kvizhinadze
502	

MO118 7.2 503	DOUBLY AND TRIPLY EXCITED AUTOIONIZING STATES STUDIED BY TWO ELECTRON CAPTURE PROCESSES USING HIGHLY CHARGED IONS R.Bruch,H.Merabet,S.Bliman,M.Cornille,A.Siems,D.Schneider
MO119 7.2 504	DOUBLE EXCITATION OF HELIUM ATOMS IN COLLISIONS WITH HEAVY IONS C.A.Ramírez,V.D.Rodríguez,R,D.Rivarola
MO120 7.2 505	PRODUCTION OF TRIPLY EXCITED STATES IN LI-LIKE BORON E.P.Benis,P.A.Závodszky,T.J.M.Zouros,H.Aliabadi,P.Richard
MO121 7.2 506	PRODUCTION OF HOLLOW LITHIUM BY ELECTRON CORRELATION IN 95 MEV/U AR ¹⁸⁺ +LI COLLISIONS J.A.Tanis,J-Y.Chesnel,F.Frémont,D.Hennecart,X.Husson,A.Cassimi,J.P.Grandin,B.Skogvall,B.Sulik,J-H.Bremer,N.Stolterfoht
MO122 7.2 507	EJECTED ELECTRON SPECTRA FROM DOUBLY-EXCITED STATES HE(3LNL') PRODUCED BY HE ²⁺ - SR AND BA COLLISIONS K.Iemura,S.Ohtani,F.J.Currel,Y.Kanai,S.Kitazawa,H.Suzuki,M.Sekiguchi,J.Takeda,T.Takayanagi,K.Wakiya,T.Watanabe
MO123 7.2 508	K-SHELL EXCITATION OF HIGHLY CHARGED CL IONS IN COLLISIONS WITH NEUTRAL GAS ATOMS AT INTERMEDIATE VELOCITIES U.Tiwari,B.B.Dhal,L.C.Tribedi,M.B.Kurup,P.N.Tandon,L.Gulyas
MO124 7.2 509	RELATIVISTIC EFFECTS IN O II LIFETIMES T.Nandi,P.Marketos
MO125 7.2 510	METASTABLE STATES OF HIGHLY EXCITED HE- AND LI-LIKE VANADIUM T.Nandi,A.Roy,A.Mandal,P.Joshi,R.P.Singh,G.Mukherjee,R.Bhowmik,P.Verma,S.N.Soni
MO126 9.1 600	ROTATIONAL EXCITATION OF O ₂ BY COLLISIONS WITH HE:A COMPARISON OF DIFFERENT POTENTIAL ENERGY SURFACES Y.Xiangdong,S.Guihua,J.Deqiong,F.Yibing
MO127 9.1 601	TOTAL CROSS SECTIONS FOR THE DESTRUCTION OF H ₃ ⁺ (V=0) ON HE I.Alvarez,F.B.Yousif,G.Hinojosa,C.Cisneros,J.de Urquijo
MO128 9.1 602	THE DYNAMICS OF THE LIH MOLECULES IN MODELLING OF THE EARLY UNIVERSE E.Bodo,F.A.Gianturco
MO129 9.1 603	CLASSICAL IRREGULAR SCATTERING AND FLUCTUATION OF QUANTUM TRANSITION PROBABILITY S.Takahashi,K.Someda
MO130 9.1 604	DEPENDENCE OF COLLISION DYNAMICS ON A SHORT-RANGE PART OF INTERACTION POTENTIAL IN A COLLINEAR ATOM-MOLECULE COLLISIONS K.Onda
MO131 9.1 605	FRAGMENTATION OF MOLECULAR HYDROGEN IONS IN COLLISIONS WITH ATOMIC AND MOLECULAR HYDROGEN TARGETS P.C.E.McCartney,C.McGrath,J.W.McConkey,M.B.Shah,J.Geddes
MO132 9.1 606	THE TRIPLET STATES OF BUTADIENE AND BENZENE BY HE ⁺ IMPACT K.Iwamoto,A.Matsumoto
MO133 9.3 650	ROTATIONAL ALIGNMENTS OF BABR OF BA+CH ₃ BR/HBR→BABR+CH ₃ /H V.Wei-Keh Wu

MO134 9.3 651	ROTATIONAL ALIGNMENTS OF KBR OF $K+DBR/HBR \rightarrow KBR+D/H$ V.Weï-Keh Wu
MO135 9.3 652	ROTATION/VIBRATION/DISSOCIATION DYNAMICS IN SUPRATHERMAL MOLECULAR COLLISIONS K.Sakimoto
MO136 9.3 653	CONVERGENCE OF COUPLED-CHANNEL BORN APPROXIMATION FOR REACTIVE SCATTERING N.N.Choi,M.-Ho.Lee,S.H.S.Salk
MO137 9.3 654	WING-WING DOUBLE-RESONANCE STUDY ON THE HG-AR SECOND-ORDER OPTICAL COLLISION K.Ohmori,M.Shoji,K.Amano,H.Chiba,M.Okunishi,Y.Sato
MO138 9.3 655	HG(3P_1)-CO HALF COLLISION INVESTIGATED BY ULTRASHORT LASER PULSES K.Amano.K.Ohmori,H.Chiba,M.Okunishi,Y.Sato
MO139 9.3 656	CHEMICAL REACTION OF SILICON CLUSTER IONS WITH ETHYLENE BY USING FT-ICR MASS SPECTROMETER M.Kohno,S.Maruyama
MO140 9.3 657	ROTATIONAL AND TRANSLATIONAL TEMPERATURE OF SiO^+ IONS PRODUCED BY LASER ABLATION OF SI IN OXYGEN GAS Y.Matsuo,T.Kobayashi,T.Nakajima,M.Takami
MO141 9.3 658	CROSS-CORRELATION TOF METHOD BY PSEUDORANDOM PULSE DISCHARGE H.Kawaguchi,M.Yamato,H.Ohoyama,T.Kasai
MO142 9.4 659	NONADIABATIC ROTATIONAL COUPLING IN THE MOLECULAR RYDBERG STATES AND THEIR PARTICIPATION IN THE COLLISION PROCESSES G.V.Golubkov, G.K.Ivanov, V.L.Bodneva
MO143 9.4 660	NONADIABATIC PROCESSES IN $H^- + H_2$ COLLISIONS A.K.Belyaev,A.S.Tiukanov
MO144 9.4 661	DFT MODELLING OF VAN DER WAALS INTERACTIONS: COLLISION INTEGRALS AND TRANSPORT PROPERTIES FOR AR-CO AND HE-CO GASEOUS MIXTURES F.A.Gianturco,F.Paesani
MO145 9.4 662	MEAN LIFETIMES AND KINETIC ENERGY RELEASED UPON DISSOCIATION OF $^3He^4He^{2+}$ AND $^{12}C^{16}O^{2+}$ MOLECULAR IONS I.Ben-Itzhak,Z.Chen,C.D.Lin,J.P.Bouhnik,I.Gertner,B.Rosner,Z.Amitay,O.Heber,D.Zajfman
MO146 13.1 715	ELECTRON MOMENTUM IMAGING IN ION-SURFACE COLLISIONS D.Fry,C.L.Cocke,M.P.Stockli
MO147 13.1 716	VIBRATIONAL EXCITATION OF CO MOLECULE ADSORBED ON AG SURFACES M.Kimura,I.Shimamura
MO148 13.1 717	DOUBLE PHOTO-EXCITATION OF ELECTRONIC STATES IN SOLIDS AND SURFACES J.Berakdar
MO149 13.1 718	ELECTRONIC EXCITATION INDUCED DESORPTION OF EXCITED ATOMS AND EXCIMERS FROM THE SURFACE OF SOLID NE T.Hirayama,T.Adachi,I.Arakawa,K.Mitsuke,M.Sakurai
MO150 13.1 719	UV-PHOTOSTIMULATED PRODUCTION OF DEUTERIUM MOLECULES FROM AMORPHOUS D_2O ICE AT 12K N.Watanabe,T.Horii,A.Kouchi

MO151 13.1 720	LOW-ENERGY ELECTRON SPECTROSCOPY OF CONDENSED MAGNESIUM ATOMS M.M.Erdevdy,O.B.Shpenik,V.M.Feyer,T.Yu.Popik
MO152 13.1 721	STRONG PCI-EFFECT IN THE EXCITATION OF CU-SURFACE BY ELECTRON IMPACT V.M.Mikoushkin
MO153 13.1 722	ENERGY LOSS IN SCATTERING OF SLOW HIGHLY CHARGED ARGON IONS FROM SOLID SURFACES Z.D.Pesic,W.P.Huang,R.Schuch,N.Stoltefoht,Gy.Vikor
MO154 13.1 723	MULTICHARGED ION IMPACT ON INSULATING LIF - CONTRIBUTIONS FROM POTENTIAL AND KINETIC ELECTRON EMISSION J.Stöckl,C.Lemell,J.Burgdörfer,G.Betz,HP.Winter,F.Aumayr
MO155 13.1 724	INELASTIC GRAZING COLLISIONS OF FAST ATOMIC PARTICLES WITH METALLIC SURFACES E.A.Andreev,M.Y.Knignikov
MO156 13.1 725	INTERACTION OF ATOMS WITH SURFACE IN GRAZING COLLISIONS REGIME. THE MECHANISM OF DESORPTION E.A.Andreev,F.I.Dalidchik,M.Y.Knignikov
MO157 13.1 726	ANOMALOUS PROPERTIES OF INTERACTION AND COLLISION OF A MOVING NEUTRAL ATOM OR MOLECULE WITH A MODULATED SURFACE V.I.Vysotskii,N.V.Maksyta
MO158 16 769	CALCULATION OF DIFFERENTIAL CROSS SECTION FOR E^- -H ₂ O INELASTIC VIBRATIONAL COLLISIONS O.Moreira,J.Stepanek
MO159 16 770	THRESHOLD FRAGMENTATION J.M.Rost
MO160 16 771	HARMONIC GENERATION THROUGH LASER ASSISTED ELECTRON-ION SCATTERING G.van de Sand,J.M.Rost
MO161 16 772	DETERMINATION OF SCATTERING LENGTHS FROM EXPERIMENTAL DATA USING A PURELY ASYMPTOTIC MODEL: APPLICATION TO NA AND CS A.Crubellier,O.Dulieu,F.Masnou-Seeuws,B.T'Jampens
MO162 16 773	INTERPRETATION OF GIANT LINES DUE TO TUNNELING IN CS ₂ 0 _g ⁻ PHOTOASSOCIATION SPECTRUM M.Vatasescu,C.Amiot,O.Dulieu,V.Kokoouline,F.Masnou-Seeuws,C.Drag,D.Comparat,P.Pillet
MO163 16 774	DISSOCIATIVE ATTACHMENT OF ELECTRON TO HOT DIATOMIC MOLECULES: HCL, H ₂ M.Cizek,J.Horacek,W.Domcke
MO164 16 775	EXCITED STATES OF TRIPLET H ₂ : THEORETICAL QUANTUM-DEFECT-THEORY CALCULATIONS OF PHOTO-IONIZATION AND PHOTO-DISSOCIATION SPECTRA A.Matzkin,Ch.Jungen,S.C.Ross
MO165 16 776	OPTICAL OSCILLATOR STRENGTHS STUDY FOR VALENCE SHELL OF SODIUM X.J.Zhang,L.F.Zhu,Y.X.Wang,X.J.Liu,R.F.Feng,K.Z.Xu,Z.P.Zhong,J.Yan

TUESDAY, 27 July

TU001 1.1 53	FIRST AND SECOND ORDER CORRECTIONS TO THE DIPOLE APPROXIMATION OBSERVED IN NEON BELOW 1000 EV O.Hemmers,P.Glans,H.Wang,S.B.Whitfield,D.W.Lindle,R.Wehlitz,I.A.Sellin,A.Derevianko,W.R.Johnson
TU002 1.1 54	ALIGNMENT OF XENON II AND KRYPTON II ODD IONIC STATES POPULATED VIA THE DECAY OF THE $ND_{5/2}^9$ (N+2)P AUTOIONIZATION RESONANCES B.M.Lagutin,I.D.Petrov,Ph.V.Demekhin,V.L.Sukhorukov,F.Vollweiler,S.Lauer,A.Ehresmann,H.Schmoranzer,B.Zimmermann,K.-H.Schartner
TU003 1.1 55	INNER-SHELL PHOTOABSORPTION OF KR, RB AND XE ATOMS Ph.V.Demekhin,I.D.Petrov,N.V.Demekhin,V.L.Sukhorukov,A.Kodre,I.Arcon,R.Preseren
TU004 1.1 56	OBSERVATION OF INTERFERENCE EFFECTS IN THE PHOTOIONIZATION OF NE^+ $2S2P^5NL$ SATELLITE STATES L.Avaldi,P.Bolognesi,D.Cooper,R.Camilloni,M.Coreno,K.C.Prince,G.C.King
TU005 1.1 57	THEORY OF EXTENDED X-RAY EMISSION FINE STRUCTURE (EXEFS) J.Kawai
TU006 1.1 58	PHOTOEXCITATION OF POTASSIUM 3S WINDOW RESONANCES M.Koide,F.Koike,M.-T.Huang,R.Wehlitz,B.DePaola,T.Nagata,S.Ohtani,Y.Azuma
TU007 1.1 59	NEAR THRESHOLD PHOTOIONIZATION OF EXCITED ALKALI ATOMS AK(MP) (AK=NA,K,RB,CS; M=3-6) I.D.Petrov,V.L.Sukhorukov,E.Leber,H.Hotop
TU008 1.1 60	PHOTOIONIZATION FOR THE EXCITED $1S^22S2P\ 1^3P$ STATES OF ATOMIC BE D-S.Kim,Y.S.Kim,S.T.Manson
TU009 1.1 61	FLUORESCENCE YIELD OF THE $2S^{-1}NP\ 1^1P_1$ RYDBERG STATES OF NE M.Zitnik,A.Muehleisen,P.Pelicon,Z.Smit,P.Lablanquie,F.Penent,R.I.Hall,J.H.D.Eland,M.Coreno,P.Bolognesi,G.C.King,S.Sranges,L.Avaldi,R.Camilloni
TU010 1.1 62	Z DEPENDENT BEHAVIOR OF OPTICAL OSCILLATOR STRENGTHS IN NE-LIKE ATOMS T.Kagawa,E.Kitano
TU011 1.1 63	APPROXIMATE WAVE FUNCTION FOR TWO ELECTRONS IN THE CONTINUUM OF THE COULOMB CHARGE J.E.Miraglia,G.Bustamante,P.A.Macri
TU012 1.4 126	FINE-STRUCTURE ENERGY LEVELS AND OSCILLATOR STRENGTHS FOR SOME ALLOWED TRANSITIONS IN FE X N.C.Deb,G.P.Gupta,A.Z.Msezane
TU013 1.4 127	LIFETIME MEASUREMENT OF NO_2 AT 423-462 AND 465-490 NM V.Sivakumaran,K.P.Subramanian,V.Kumar
TU014 1.4 128	HIGH RESOLUTION STUDY OF THE NEUTRAL DISSOCIATION WITH EXCITATION (NDE) OF OXYGEN FAR BEYOND THE IONIZATION THRESHOLD H.Liebel,A.Ehresmann,S.Laur,F.Vollweiler,R.Müller-Albrecht,H.Schmoranzer,G.Mentzel,O.Wilhelmi,K.-H.Schartner
TU015 1.4 129	PHOTODISSOCIATION DYNAMICS OF $CBRCLF_2$ AT 157 NM A.Yokoyama,K.Yokoyama,T.Takayanagi
TU016 1.4 130	THE FORMATION OF XEO^* ($2^1\Sigma^+$) BY THE PHOTOLYSIS OF CO_2 AND XE C.T.Kuo,S.Y.Wang,S.C.Li,P.C.Lee,J.B.Nee

TU017 1.4 131	DETECTION OF O(¹ D) AND O(¹ S) PRODUCED IN THE PHOTODISSOCIATION OF O ₂ , N ₂ O, AND CO ₂ J.B.Nee, J.C. Yang, P.C. Lee, C.T. Kuo
TU018 1.4 132	ELECTRIC-FIELD-INDUCED PREDISSOCIATION OF MOLECULAR RYDBERG STATES STUDIED BY THE TWO-COLOR RESONANT FOUR-WAVE MIXING SPECTROSCOPY T.Kobayashi, G.Jihong, Y.Matsuo, M.Takami
TU019 1.4 133	THREEBODY BREAKUP OF LASER-EXCITED TRIATOMIC HYDROGEN MOLECULES U.Müller, M.Beckert, M.Braun, H.Helm
TU020 1.4 134	FORMATION AND DECAY PROCESSES OF SUPEREXCITED ETHYLENE IN THE VUV RANGE K.Kameta, K.Takeda, M.Watanabe, N.Kouchi, Y.Hatano
TU021 1.4 135	I AND I* FORMATION MECHANISM FORMED BY CH ₃ I CLUSTERS AT 280 NM PHOTODISSOCIATION T.Murase, D.-C.Che, M.Hashinokuchi, T.Kasai
TU022 1.4 136	ULTRAFast PHOTODISSOCIATION OF OCS AS STUDIED BY TUNABLE VUV-VUV PUMP-PROBE SPECTROSCOPY R.Itakura, A.Hishikawa, K.Yamanouchi
TU023 1.4 137	INTERACTION OF INTERSTELLAR MATTER WITH COSMIC MICROWAVE BACKGROUND RADIATION: ONE POSSIBLE CLUE TO THE ANISOTROPY OF THE CM-BR AND TO A TIME' ARROW OF THE UNIVERSE T.K.Rai Dastidar
TU024 3.3 250	ELECTRON-IMPACT CROSS SECTIONS OF ATOMIC OXYGEN AT 30, 50 AND 100 EV I.Kanik, M.B.Das, M.A.Khakoo, S.Trajmar, S.S.Tayal
TU025 3.3 251	ELECTRON-IMPACT EMISSION AND EXCITATION CROSS SECTIONS OF XENON AT LOW ENERGIES I.Kanik, S.Trajmar, M.A.Khakoo, G.K.James
TU026 3.3 252	A NEW TECHNIQUE FOR THE OBSERVATION OF HIGHLY-EXCITED AND MULTIPLY-EXCITED STATES IN ATOMS AND MOLECULES J.R.Harries, M.K.Odling-Smee, A.J.Murray, P.Hammond
TU027 3.3 253	STUDIES OF SUPERELASTIC ELECTRON SCATTERING BY THE METASTABLE MAGNESIUM ATOMS V.I.Marushka, S.Y.Ugrin, I.I.Shafranyosh
TU028 3.3 254	ELECTRON IMPACT EXCITATION OF KRYPTON TO THE 4P ⁵ S AND 4P ⁵ P CONFIGURATIONS-RATIO PARAMETERS AND CROSS SECTIONS X.Guo, D.J.Mathews, G.Mikaelian, M.A.Khakoo, I.Kanik, S.Trajmar
TU029 3.3 255	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR THE ELECTRON IMPACT EXCITATION OF THE H(1 ² S→2 ² S+2 ² P) TRANSITIONS AT 30,40,50 AND 100 EV M.A.Khakoo, M.Larsen, B.Paolini, X.Guo
TU030 3.3 256	POLARIZATION OF BALMER-α RADIATION FOLLOWING ELECTRON IMPACT ON ATOMIC HYDROGEN W.Kedzierski, J.W.McConkey
TU031 3.3 257	EXCITATION AND IONIZATION-EXCITATION OF HELIUM FOLLOWING ELECTRON AND PROTON IMPACT: A POLARIZATION STUDY H.Merabet, A.Siems, M.Bailey, R.Bruch, A.G.Trigueiros
TU032 3.3 258	TEST OF CLOSURE APPROXIMATION IN THE TEMKIN-POET MODEL USING L ² BASIS T.Winata
TU033 4.3 315	ORBITAL MOMENTUM PROFILES AND BINDING ENERGY SPECTRA OF PROPANE BY BINARY (E,2E) SPECTROSCOPY Y.Zheng, W.N.Pang, R.C.Shang, X.J.Chen, C.E.Brion, T.K.Ghanty, E.R.Davidson

TU034 4.3 316	ELASTIC SCATTERING AND VIBRATIONAL EXCITATIONS OF CO ₂ MOLECULE BY S-LOW ELECTRON COLLISIONS T.Ono,Y.Kojima,A.Nishimura,Y.Oguma,K.Soejima,Y.Kiyama,T.Takahasi,A.Danjo
TU035 4.3 317	THEORETICAL STUDIES OF DDOS FOR WATER MOLECULES BY ELECTRON IMPACT: A NEW APPROACH D.Coimbra,R.S.Barbieri
TU036 4.3 318	VIBRATIONAL EXCITATION CROSS SECTION OF E ⁻ +CO ₂ SCATTERING S.Watanabe,Y.Sakamoto,M.Kitajima,H.Tanaka,M.Kimura
TU037 4.3 319	ELECTRON IMPACT IONISATION OF ETHANE S.Tomar,M.K.Sharma,S.P.Khare
TU038 4.3 320	ELECTRON-IMPACT IONIZATION OF THE NUCLEIC ACID BASES MOLECULES M.I.Sukhoviya,I.A.Shondoly,M.I.Shafranyosh,L.L.Shimon
TU039 4.3 321	CROSS SECTIONS FOR ELECTRON SCATTERING BY POLYATOMIC MOLECULES USING THE SCHWINGER MULTICHANNEL METHOD WITH PSEUDOPOTENTIALS (SM-CPP) M.T.doN.Varella,D.L.Azevedo,R.B.Diniz,A.P.P.Natalense,M.H.F.Bettega,L.G.Ferreira,M.A.P.Lima
TU040 4.3 322	HIGH RESOLUTION ELECTRON IMPACT IONISATION STUDIES FOR OZONE AND O-CLO MONOMERS AND DIMERS G.Denifl,D.Muigg,N.J.Mason,A.Stamatovic,T.D.Märk
TU041 4.3 323	IONIZATION COEFFICIENT IN SOME ARGON-BASED MIXTURES IN STRONG ELECTRIC FIELDS I.K.Bronic,B.Grosswendt
TU042 5.3 378	VALIDITY OF N ⁻³ SCALING LAW IN DIELECTRONIC RECOMBINATION PROCESSES J.G.Wang,T.Kato,I.Muarakami
TU043 5.3 379	DIELECTRONIC RECOMBINATION RATE COEFFICIENTS FOR BE-LIKE IONS I.Murakami,U.I.Safronova,T.Kato
TU044 5.3 380	DIELECTRONIC RECOMBINATION OF THE CD ⁺ ION VIA CD(4D ⁹ 5S ² 5P) AUTOIONIZING STATES A.N.Gomonai,A.I.Imre,V.S.Vukstich,A.N.Nemeth
TU045 5.3 381	INFLUENCE OF MAGNETIC FIELDS ON THE ANOMALOUS RECOMBINATION RATE OF IONS WITH FREE ELECTRONS AT LOW ENERGIES G.Gwinner,T.Bartsch,M.Beutelspacher,N.Eklöv,P.Glans,A.Hoffknecht,E.Lindroth,A.Müller,A.A.Saghiri,S.Schippers,M.Schmitt,D.Schwalm,G.Wissler,A.Wolf
TU046 5.3 382	RADIATIVE RECOMBINATION OF BARE CL ¹⁷⁺ : EXPERIMENT VERSUS THEORY A.Hoffknecht,T.Bartsch,G.Gwinner,J.Linkemann,A.Müller,A.A.Saghiri,S.Schippers,A.Wolf
TU047 5.3 383	FIELD ENHANCED DIELECTRONIC RECOMBINATION OF CL ¹⁴⁺ AND TI ¹⁰⁺ IONS T.Bartsch,A.Müller,S.Schippers,C.Brandau,S.Böhm,G.Gwinner,A.A.Saghiri,M.Schmitt,G.Saathoff,M.Beutelspacher,M.Grieser,D.Schwalm,A.Wolf,H.Danared,R.Schuch,G.H.Dunn,D.W.Savin
TU048 5.3 384	DIELECTRONIC RECOMBINATION OF THE HEAVIEST LI-LIKE IONS C.Brandau,T.Bartsch,K.Beckert,C.Böhme,F.Bosch,B.Franzke,A.Hoffknecht,H.Knopp,C.Kozhuharov,A.Krämer,P.H.Mokler,A.Müller,F.Nolden,S.Schippers,Z.Stachura,M.Steck,Th.Stöhlker,Th.Winkler
TU049 5.3 385	EXPERIMENTAL SEARCH FOR INTERFERENCE EFFECTS DURING THE RECOMBINATION OF AR-LIKE SC ³⁺ AND TI ⁴⁺ IONS WITH FREE ELECTRONS S.Schippers,T.Bartsch,C.Brandau,G.Gwinner,J.Linkemann,A.Müller,A.A.Saghiri,A.Wolf

TU050 5.3 386	INFLUENCE OF MAGNETIC FIELDS ON RADIATIVE RECOMBINATION OF BI ⁸³⁺ A.Hoffknecht, T.Bartsch, C.Böhme, F.Bosch, C.Brandau, B.Franzke, H.Knopp, C.Kozhuharov, A.Krämer, P.Mokler, A.Müller, F.Nolden, S.Schippers, M.Steck, T.Stöhlker, T.Winkler
TU051 5.3 387	DIELECTRONIC RECOMBINATION OF LI-LIKE IONS P.Glans, N.Eklöv, W.Zong, E.Lindroth, N.R.Badnell, G.Gwinner, A.A.Saghiri, M.Pajek, E.Justiniano, R.Schuch
TU052 5.3 388	ACCULATE CALCULATIONS OF DIELECTRONIC RECOMBINATION RESONANCES E.Lindroth, M.Tokman
TU053 5.3 389	MAGNETIC FIELD DEPENDENCE OF THE ENHANCEMENT OF RECOMBINATION OF ELECTRONS WITH BARE IONS N.Eklöv, P.Glans, E.Lindroth, R.Schuch
TU054 5.3 390	RESONANT CONTRIBUTIONS TO THE 3→2 LINE EMISSION OF LITHIUM-LIKE IRON M.F.Gu, S.M.Kahn, D.W.Savin, P.Beiersdorfer, G.V.Brown, D.A.Liedahl, K.J.Reed, C.P.Bhalla, S.R.Grabbe
TU055 5.3 391	RECOMBINATION OF LOW-ENERGY ELECTRONS WITH MULTICHARGED IONS VIA CHAOTIC MULTIPLY-EXCITED STATES: A STATISTICAL APPROACH G.F.Gribakin, A.A.Gribakina, V.V.Flambaum
TU056 6.1 421	POSITRON SCATTERING FROM ARGON AND KRYPTON R.Campeanu, R.P.McEachran, L.A.Parcell, A.D.Stauffer
TU057 6.1 422	ELECTRON CAPTURE TO THE CONTINUUM AT 54.4EV POSITRON+ARGON COLLISIONS K.Tökési, Á.Kövér
TU058 6.1 423	POSITRON SCATTERING BY HE, MG, CA AND ZN C.P.Campbell, J.Blackwood, M.T.McAlinden, H.R.J.Walters
TU059 6.1 424	POSITRON-ALKALI COLLISION WITH POSITRONIUM FORMATION AT INTERMEDIATE AND HIGH ENERGIES O.A.Fojón, R.Gayet, J.Hanssen, P.A.Hervieux, R.D.Rivarola
TU060 6.1 425	FORMATION OF POSITRONIUM JETS BY IMPACT OF ULTRARELATIVISTIC POSITRONS ON ATOMS D.N.Aguilera, O.A.Fojón, R.D.Rivarola
TU061 6.1 426	POSITRON-MAGNESIUM SCATTERING IN INTERMEDIATE ENERGIES Y.Zhou, K.Ratnavelu, Z.Zhou, J.Pang
TU062 6.1 427	CONTINUUM EFFECTS FOR POSITRON SCATTERING FROM SODIUM K.Ratnavelu, N.Natchimuthu
TU063 6.1 428	POLARISATION POTENTIAL MODELS FOR POSITRON SCATTERING FROM BOUND ATOMS N.Natchimuthu, K.Ratnavelu
TU064 6.1 429	DOUBLE IONIZATION WITH POSITRONIUM FORMATION IN POSITRON-ATOM COLLISIONS H.Bluhme, H.Knudsen, J.P.Merrison, K.Nielsen
TU065 6.1 430	LOW-ENERGY POSITRON COLLISIONS WITH METHANE MOLECULES AND ARGON ATOMS T.Nishimura, I.Shimamura
TU066 6.1 431	TOTAL CROSS SECTIONS FOR POSITRON SCATTERING ON NITROGEN AT INTERMEDIATE ENERGIES G.P.Karwasz, M.Barozzi, R.S.Brusa, A.Zecca

TU067 6.1 432	ELECTRON CAPTURE TO THE CONTINUUM PROCESS AT POSITRON IMPACT mfflKövér,G.Laricchia
TU068 6.1 433	COMMENT ON "SEMIEMPIRICAL APPROACH TO POSITRON ANNIHILATION IN MOLECULES" J.Mitroy,G.G.Ryzhikh,M.W.J.Bromley
TU069 6.1 434	MECHANISMS OF POSITRON ANNIHILATION ON MOLECULES G.F.Gribakin
TU070 6.1 435	ANNIHILATION DYNAMICS IN POSITRON SCATTERING: Z_{EFF} CALCULATIONS FOR N_2 AND C_2H_2 AND ANNIHILATION PROBABILITY DENSITY (APD) FOR COLLISIONS AGAINST HE , H_2 AND C_2H_4 M.T.doN.Varella,C.R.C.deCarvalho,E.P.daSilva,J.S.E.Germano,M.A.Lima
TU071 7.3 511	COULOMB FOCUSING POST-COLLISION ENERGY SHIFT IN HIGH-ENERGY PROTON IMPACT Gy.Víkor,L.Víkor,L.Gulyás
TU072 7.3 512	ANOMALOUS BEHAVIOR OF ISOTROPIC NE AUGER-LINE INTENSITY IN MATCHING VELOCITY REGION OF PROTON PROJECTILE Gy.Víkor,L.Tóth,S.Ricz
TU073 7.3 513	COLLISIONAL EXCITATION OF H^{**} RESONANCES AROUND $H(N=3)$ F.Penent,J.P.Grouard,D.Modeley,J.L.Montmagnon,L.Sarkadi
TU074 7.3 514	LIFETIME MEASUREMENT OF HE^- AND BE^- USING AN ELECTROSTATIC ION TRAP D.Zajfman,O.Heber,K.G.Bhushan,L.Knoll,A.Wolf,I.Ben Itzhak,M.L.Rappaport
TU075 7.4 515	L-SHELL X-RAY PRODUCTION CROSS SECTIONS FOR 50-300 KEV PROTONS IMPACTING THICK TARGETS OF FE,CU,ZN AND GE S.J.Cipolla
TU076 7.4 516	OBSERVATION OF CONTINUOUS X-RAY SPECTRA MINGLED WITH ATOMIC BREMSSTRAHLUNG AND NUCLEAR BREMSSTRAHLUNG K.Ishii,T.Satoh,S.Matsuyama,H.Yamazaki,Y.Tohkai,A.Sugimoto,K.Yamamoto,S.Futatsukawa
TU077 7.4 517	BREMSSTRAHLUNG SPECTRA OF 1 MEV P AND HE^{++} ON CU AND AG ATOMS A.V.Korol,A.G.Lyalin,O.I.Obolensky,A.V.Solov'yov
TU078 7.4 518	MANIFESTATION OF THE BETHE RIDGE IN POLARIZATIONAL BREMSSTRAHLUNG A.V.Korol,A.G.Lyalin,O.I.Obolensky,A.V.Solov'yov
TU079 7.8 563	GENERALIZED MODELS OF NONADIABATIC TRANSITIONS L.Pichl,V.I.Osherov,H.Nakamura
TU080 7.8 564	COLLISION OF A NON-RELATIVISTIC PARTICLE WITH A STRUCTURAL TARGET V.A.Sidorovich
TU081 7.8 565	TIME-ORDERING AND ENTROPY IN FEW ELECTRON TRANSITIONS J.H.McGuire,A.L.Godunov,S.G.Tolmanov
TU082 7.8 566	BINARY ENCOUNTER OF GROUND STATE, AND LASER EXCITED STATES OF LITHIUM C.Verzani,M.Benis,T.J.M.Zouros,B.DePaola
TU083 7.8 567	ENERGY DISTRIBUTIONS IN RESONANT CHARGE TRANSFER ION-RYDBERG COLLISIONS D.S.Fisher,C.W.Fehrenbach,S.R.Lundeen,E.Hessels,B.D.DePaola

TU084 7.8 568	COLLISIONAL DEEXCITATION OF $\text{He}^+(2S)$ IN $\text{He}, \text{Ar}, \text{Xe}$, AND H_2 H.T.Schmidt,A.Fardi,K.Haghighat,A.Langereis,J.C.Levin,L.Liljeby,S.Schwartz,I.A.Sellin, H.Cederquist
TU085 7.8 569	A NEW ADIABATIC FORMULATION OF HETERONUCLEAR HYDROGEN MOLECULAR ION B.D.Esry,H.R.Sadeghpour
TU086 7.8 570	EVIDENCE FOR MULTIPLE SCATTERING OF THE EMITTED ELECTRONS IN INTERMEDIATE VELOCITY C^+ +INERT GAS COLLISIONS B.Sulik,Cs.Koncz,K.Tökési,A.Kövér,S.Ricz,J-Y.Chesnel,N.Stolterfoht,D.Berényi
TU087 7.8 571	A SECOND BORN MODEL FOR DOUBLE SCATTERING OF EJECTED ELECTRONS IN ION-ATOM COLLISIONS Cs.Koncz,B.Sulik
TU088 7.8 572	ION MOBILITY AND PRESSURE MEASUREMENTS AT VERY LOW TEMPERATURE H.Tanuma,H.Fujimatsu,N.Kobayashi
TU089 7.8 573	SWARM STUDY OF DOUBLY CHARGED RARE-GAS IONS IN HELIUM GAS AT VERY LOW TEMPERATURE H.Hidaka,H.Tanuma,N.Kobayashi
TU090 7.8 574	SEARCH FOR POLARIZATION BREMSSTRAHLUNG USING PROTONS AND He^+ ON THIN TARGETS OF $\text{Cu}, \text{Ni}, \text{Ag}$ AND Au S.Portillo,C.A.Quarles,F.D.McDaniel,J.L.Duggan,M.El Bouanani
TU091 7.8 575	SYMMETRY-INVARIANT ADIABATIC APPROACH TO THE THREE-BODY COLLISIONS A.V.Matveenko
TU092 8.3 585	MUTUAL NEUTRALIZATION PROCESSES IN COLLISIONS BETWEEN H^- IONS AND Na^+ IONS IN THE ENERGY RANGE FROM 20 eV TO 10 keV S.Suzuki,N.Shimakura,A.S.Dickinson,J.F.McCann
TU093 8.3 586	MULTISTATE QUASIMOLECULAR BASIS TREATMENT OF $\text{He}^{2+}\text{-C}^{3+}$ COLLISIONS. D- DIFFERENTIAL AND TOTAL CROSS SECTIONS V.K.Nikulin,N.A.Guschina
TU094 8.3 587	ELECTRON CAPTURE IN COLLISIONS BETWEEN MULTIPLY CHARGED IONS K.v.Diemar,A.Pfeiffer,F.Melchert,K.Bajajova,E.Salzborn
TU095 8.3 588	STATE-SELECTIVE ELECTRON CAPTURE IN ION-ION COLLISIONS A.Pfeiffer,F.Melchert,K.v.Diemar,K.Huber,E.Salzborn
TU096 8.4 589	COLLISIONS BETWEEN BARE He AND Li -LIKE IONS M.Keim,A.Achenbach,T.Kirchner,H.J.Lüdde,R.M.Dreizler
TU097 8.4 590	A NEW APPROACH TO ELECTRON TRANSLATION IN LOW ENERGY ATOMIC COLLISIONS A.K.Belyaev,D.Egorova,J.Grosser,T.Menzel
TU098 8.4 591	QUENCHING OF RYDBERG STATES BY ATOMS WITH SMALL ELECTRON AFFINITIES I.I.Fabrikant
TU099 8.4 592	FORMATION OF He_2^* BY $\text{He}_2^+/2\text{e}^-$ THREE-BODY COLLISIONAL RADIATIVE RECOMBINATION AND $\text{He}_2^+/\text{C}_6\text{F}_5\text{X}^-$ ($\text{X}=\text{F}, \text{Cl}$) ION-ION NEUTRALIZATION REACTIONS IN A HELIUM FLOWING AFTERGLOW M.Tsuji,E.Oda,K.Mogi,Y.Sakai
TU100 8.4 593	THE 3D-3P ENDOTHERMIC COLLISIONAL POPULATION TRANSFER OF Li IN He AND Ar AT 298K N.Yonekura,T.Nakajima,Q.Hui,M.Takami

TU101 8.4 594	TEMPERATURE-DEPENDENT DEPOLARIZATION CROSS SECTIONS OF THE 5D6P 3P_1 AND 3D_1 STATES OF LASER-ABLATED BA IN HE GAS IN THE RANGE 10-300 K T.Nakajima,N.Yonekura,Y.Matsuo,Q.Hui,M.Takami
TU102 8.4 595	ELASTIC SCATTERING OF HE($2^3,1S$) METASTABLE ATOMS BY NA(3^2S) ATOMS AT 68 MEV ENERGIES E.Yu.Remeta,V.I.Kelemen,A.N.Zavilopulo,A.V.Snegursky
TU103 8.4 596	EXCITATION AND ELECTRON TRANSFER IN H(1S)-H(1S) COLLISIONS J.Wang,J.P.Hansen,A.Dubois
TU104 8.4 597	DISALIGNMENT OF EXCITED NEON ATOMS DUE TO HELIUM ATOM COLLISIONS IN LOW TEMPERATURES T.Shimamura,T.Hanaoka,M.Hasuo,T.Fujimoto
TU105 8.4 598	EFFECTS OF VELOCITY CHANGING COLLISIONS ON SATURATED ABSORPTION OF EXCITED NEON ATOMS Y.Ohta,T.Hanaoka,M.Hasuo,T.Fujimoto
TU106 8.4 599	ENERGY TRANSFER AMONG DOUBLY EXCITED 5D6P AND 5D 2 STATES OF BA INDUCED BY COLLISION WITH HE Y.Matsuo,T.Nakajima,T.Kobayashi,M.Takami
TU107 9.1 607	ORIENTATION DEPENDENCE OF CO MOLECULE DISSOCIATION BY ELECTRON CAPTURE COLLISION WITH 1 MEV C $^{3+}$ ION Y.Haruyama,M.Saito,K.Yoshida,A.Itoh,N.Imanishi
TU108 9.1 608	AUGER AND RADIATIVE DECAY OF TRIPLY EXCITED STATES OF HE $^-$,LI,BE $^+$,B $^{2+}$ AND C3+ PROJECTILES FOLLOWING ION-ATOM AND ION-MOLECULE INTERACTIONS A.Siems,R.Bruch,H.Merabet,S.Bliman,U.L.Safronova
TU109 9.1 609	THREE-DIMENSIONAL IMAGING OF MOLECULAR BREAKUP IN XE $^{26+}$ -D $_2$ INTERACTIONS R.D.DuBois,I.Ali,C.L.Cocke
TU110 9.1 610	NON-FRANCK-CONDON FRAGMENTATION DYNAMICS IN SLOW MULTIPLY CHARGED ION-MOLECULE COLLISIONS R.D.DuBois,T.Schlathölter,O.Hadjar,R.Hoekstra,R.Morgenstern,R.Feeler,R.E.Olson
TU111 9.1 611	DISSOCIATIVE EXCITATION OF CH $_3$ OH AND BRCN IN COLLISION WITH HE $^*(2^3S)$ STUDIED BY COLLISION ENERGY RESOLVED SPECTROSCOPY Y.Yamakita,R.Yokoi,K.Kanda,K.Ohno
TU112 9.1 612	IONIZATION AND FRAGMENTATION OF H $_2$ O IN COLLISIONS WITH MEV/U HIGHLY CHARGED IONS B.Siegmann,U.Werner,U.Brinkmann,A.Reinköster,H.O.Lutz,R.Mann
TU113 9.1 613	FRAGMENTATION OF D $_2$ MOLECULES BY XE $^{19+}$ IMPACT C.R.Feeler,R.E.Olson,R.D.DuBois,T.Schlatholter,O.Hadjar,R.Hoekstra,R.Morgenstern
TU114 9.1 614	EXCITATION OF THE 1NG BAND SYSTEMS OF N $_2^+$ IN MODERATE ENERGY RANGE DURING N $^+$ -N $_2$ COLLISIONS M.Gochitashvili,B.Kikiani,R.Lomsadze
TU115 9.1 615	POSITION SENSITIVE TOF STUDY OF FRAGMENTATION OF NO $_2$ T.Nishide,T.Kitamura,F.A.Rajgara,H.Shiromaru,Y.Achiba,N.Kobayashi
TU116 9.1 616	MULTIPLE DISSOCIATIVE IONISATION OF SF $_6$ BY 1 MEV PROTONS, VUV PHOTONS AND SOFT X-RAYS A.M.Sands,M.K.Thomas,B.O.Fisher,K.Codling,P.A.Hatherly,M.B.Shah,K.F.Dunn,C.J.Latimer

TU117 13.2 727	BAND STRUCTURE AND INELASTIC SCATTERING EFFECTS IN THE TARGET CURRENT AND SECONDARY ELECTRON SPECTROSCOPY BY LOW-ENERGY ELECTRON EXCITATION O.F.Panchenko,L.K.Panchenko
TU118 13.2 728	SATELLITE STRUCTURE IN THE BINDING ENERGY SPECTRA OF THE VALENCE BAND OF ALUMINUM A.S.Kheifets,M.Vos,E.Weigold,S.A.Canney,B.Holm,F.Aryasetiawan,K.Karlsson
TU119 13.2 729	X-RAY EMISSION FROM RESONANT COHERENTLY EXCITED 390 MEV/U AR ¹⁷⁺ IONS CHANNELED IN CRYSTALS T.Azuma,Y.Takabayashi,T.Ito,K.Komaki,Y.Yamazaki,S.Datz,E.Takada,T.Murakami
TU120 13.2 730	CONVOY ELECTRON PRODUCTION IN 390 MEV/U AR ¹⁷⁺ ION COLLISIONS WITH THIN FOILS Y.Takabayashi,T.Ito,T.Azuma,K.Komaki,Y.Yamazaki,H.Tawara,M.Torikoshi,A.Kitagawa,E.Takada,T.Murakami
TU121 13.2 731	ATOMIC DISPLACEMENTS INDUCED BY HIGH DENSITY ELECTRONIC EXCITATION IN IRON A.Iwase,Y.Chimi,N.Ishikawa,T.Kambara
TU122 13.2 732	TOTAL SECONDARY ELECTRON YIELDS FOR AR IONS INCIDENT ON AN HOPG AND SiO ₂ SURFACE AS A FUNCTION OF IMPACT VELOCITY AND INCIDENT ANGLE D.Fry,M.P.Stockli
TU123 13.2 733	QUANTUM TRANSPORT THEORY FOR ATOMIC STATES THROUGH SOLIDS D.G.Arbó,C.O.Reinhold,S.Yoshida,J.Burgdörfer
TU124 13.2 734	NEW 100 PS LIVED UV LUMINESCENCE OF ION TRACK IN WIDE BAND-GAP CRYSTALS K.Kimura,S.Sharma,J.Kaneko
TU125 13.2 735	PHOTO-DISSOCIATION OF MOLECULAR SOLID HYDROGEN BY STRONG LASER FIELD K.Fujima,K.Ooshita,K.Nishihara,H.Nagara
TU126 13.2 736	SCATTERING OF BOUND POLARON IN AN EXTERNAL LASER FIELD C.Sinha,S.Mukhopadhyay
TU127 13.2 737	PROPOSALS AND PREDICTIONS FOR (E,2E) EXPERIMENTS ON HIGH-TC CUPRATE OXIDES K.A.Kouzakov,Yu.V.Popov
TU128 13.2 738	MODELLING OF ANGLE-RESOLVED PHOTOEMISSION FROM HIGH-T _C SUPERCONDUCTORS K.A.Kouzakov
TU129 15 756	NEW STANDPOINT ON THE CORRELATION PROBLEM V.A.Sidorovich
TU130 15 757	THE OPERATOR APPROACH TO THE SOLUTION OF THE NON-RELATIVISTIC TIME-INDEPENDENT SCHRÖDINGER EQUATION V.A.Sidorovich
TU131 15 758	STUDY OF THREE-PARTICLE ATOMIC SYSTEMS IN TWO-DIMENSIONAL SPACE USING HYPERSPHERICAL FUNCTION METHOD Sh.Tsiklauri,A.Lomidze
TU132 15 759	THE PROPERTIES OF THREE-ELECTRON QUANTUM POINT Sh.Tsiklauri,A.Lomidze
TU133 15 760	THEORETICAL CALCULATION OF ATOMIC STRUCTURE: RELATIVISTIC MULTICHANNEL THEORY J.Yan,D.Xia,J-M.Li

TU134 15 761	NEW BASIS SET FOR QUANTUM MECHANICAL CALCULATION BASED ON ELEMENT-FREE GALERKIN METHOD M.Sugawara
TU135 15 762	TWO-DIMENSIONAL GROSS-PITAWVSKII EQUATION AND THEORY OF BOSE-CONDENSATE AND VORTEX STATE S.-H.Kim, C.Won, S.D.Oh, W.Jhe
TU136 15 763	SCROLL, A COLLISIONAL RADIATIVE MODEL FOR HIGH Z ATOMS IN HOT PLASMAS BASED ON SUPERCONFIGURATIONS M.Klapisch,A.Bar-Shalom,J.Oreg
TU137 15 764	THE INFLUENCE OF COSMOLOGICAL REMOTENESS ON ATOMIC, MOLECULAR AND COLLISION PROPERTIES AND OBSERVATIONS F.T.Smith
TU138 16 777	GENERALIZED OSCILLATOR STRENGTH DENSITY STUDY FOR THE CONTINUUM REGION OF HELIUM L.F.Zhu,Z.P.Zhong,X.J.Liu,R.F.Feng,X.J.Zhang,K.Z.Xu
TU139 16 778	A COMPARISON STUDY OF (E,2E) ELECTRON MOMENTUM SPECTROSCOPY AND PENNING IONIZATION ELECTRON SPECTROSCOPY S.X.Tian,X.J.Chen,C.C.Jia,K.Z.Xu
TU140 16 779	ELECTRON SPECTRA FROM COLLISIONS OF 95 MEV/U AR ¹⁸⁺ IONS WITH INERT GAS ATOMS B.Sulik,J.-Y.Chesnel,D.Lecler,X.Husson,J.P.Grandin,F.Frémont,D.Hennecart,L.Gulyás, J.A.Tanis,B.Skogvall,M.Grether,N.Stolterfoht
TU141 16 780	CALCULATIONS OF CHARGE CHANGING CROSS SECTIONS FOR HIGHLY CHARGED IONS Y.Li,F.J.Currell,D.Kato,S.Ohtani
TU142 16 781	ENERGY PARTITIONING IN PRODUCTS OF SINGLE-ELECTRON CHARGE TRANSFER PROCESSES INVOLVING MOLECULAR DOUBLY-CHARGED IONS Z.Herman
TU143 16 782	LONG-RANGE INTERACTIONS: POLARISABILITIES, VAN DER WAALS COEFFICIENTS, ET CETRA G.Peach
TU144 16 783	CLOSE-COUPLED CALCULATION OF COLD COLLISIONS OF MAGNETOSTATICALLY TRAPPED HELIUM METASTABLES V.Venturi,P.J.Leo,G.Peach,I.B.Whittingham
TU145 16 784	PHOTOELECTRON CURRENT MODULATION IN MULTIPHOTON DETACHMENT OF H ⁻ S.Bivona,R.Burlon,C.Leone
TU146 16 785	INVESTIGATION OF OPTICAL EMISSION IN BINARY LOW ENERGY N _e -N _e COLLISIONS S.Yu.Kurskov,Yu.B.Petrov,Yu.A.Safronov
TU147 16 786	TIME-DEPENDENT DENSITY FUNCTIONAL THEORY WITH OPTIMIZED EFFECTIVE POTENTIAL AND SELF-INTERACTION CORRECTION: APPLICATION TO THE STUDY OF MOLECULAR MULTIPHOTON PROCESSES IN INTENSE PULSED LASER FIELDS X.Chu,S.-I.Chu
TU148 16 787	GENERATION OF CIRCULARLY POLARIZED MULTIPLE HIGH-ORDER HARMONIC EMISSION FROM TWO-COLOR CROSSED LASER BEAMS X.-M.Tong,S.-I.Chu
TU149 16 788	CHARGE TRANSFER PROCESSES OF H ATOM COLLISION WITH PROTON, A CASE STUDY BY SOLVING TIME-DEPENDENT SCHRODINGER EQUATION X.M.Tong,D.Kato,T.Watanabe,S.Ohtani

TU150 16 789	ENERGY RESOLVED COLLISION INDUCED DISSOCIATION OF Cu_n^+ ($n=2-9$): STABILITY AND FRAGMENTATION PATHWAYS O.Ingósson,U.Busolt,K.Sugawara,H.Takeo
TU151 16 790	(e,2e) INVESTIGATION OF He 2i2i' AUTOIONIZING LEVELS J.G.Childers,N.L.S.Martin
TU152 16 791	PHOTOIONIZATION OF He UP TO THE THRESHOLD OF PRODUCTION OF He^+ ($N=10$): HYPERSPHERICAL CLOSE-COUPPLING CALCULATIONS X.P.Xie,W.Sun,W.Huang,P.Xue,C.B.Xu,X.Y.Xu,J.Tang,I.Shimamura
TU153 16 792	DISTORTED WAVE APPROXIMATIONS IN THE DESCRIPTION OF THE DOUBLE ELECTRON TRANSFER REACTION: DIFFERENTIAL CROSS SECTIONS A.E.Martinez,R.D.Rivarola