

## 29th International Symposium on Ion-Atom Collisions (ISIAC 2025), July 25-27, 2025 / Uji, Kyoto, Japan

Session #	ID	Presentor	Title
Poster 1 25-Jul 18:00 - 20:00	1	Fernando Aguilar-Galindo	Relevance of electronic excited states in the ionization and fragmentation dynamics of ferrocene induced in collisions with highly charged ions
	2	Lamia Aissaoui	Theoretical investigation of NO <sup>+</sup> Ion Mobility in Helium Based on the Monchick-Mason Approximation
	3	Nicholas Wayne Antonio	Benchmark target excitation and ionisation cross sections for p-bar +He(1s, 2s3s) collisions
	4	Nicholas Wayne Antonio	Convergent close-coupling approach to ion collisions with multi-electron targets: Application to p-bar + C collisions
	5	Yuma Aoki	K-shell lines of neutral Iron atoms in the central region of the Milky Way resolved by the X-ray astronomy satellite XRISM
	6	Marcin Buchowiecki	Ab initio high energy interactions for N-H <sup>+</sup> and N <sup>+</sup> -H collisions. Integrated and transport cross sections and stopping power.
	7	Chenzhong Dong	M-shell X-ray emission for Ho target induced by Li1,2,3+ ions
	8	Alain Dubois	Theoretical and experimental investigations of projectile excitation to autoionizing states in swift carbon and oxygen ions collisions with helium
	9	Taiki Fujita	Measurement of ion-induced secondary electron emission from metal surfaces
	10	Dalong Guo	State-resolved autoionizing double-electron capture in intermediate-energy collisions of C4+ (1s2s 3S) with He
	11	Ryo Hasebe	Quantitative evaluation of argon in vanadium nitride films by non-Rutherford backscattering spectrometry and particle induced x-ray emission
	12	Masamitsu Hoshino	Contributions of Atomic, Molecular and Sputtering Data Workshop Group for the NIFS database
	13	Zoltán Juhász	Cluster effects in collisions of hydrogen cluster ions with H <sub>2</sub> molecules
	14	Zoltán Juhász	Temperature Dependence of the Electron-Induced Radiolysis of Solid N <sub>2</sub> O: Applications to Astrochemistry in the Outer Solar System
	15	Alisher Kadyrov	Connection between atomic excitation and ionisation
	16	Akshit Mahesh Kotian	Electron capture in collisions of highly charged argon ions with hydrogen atoms
	17	Yoshiaki Kumagai	Development of a Method for Measuring the Energy Loss of MeV Projectile Ions in a Thin Liquid Water Sheet
	18	Ladislau Nagy	Excitation of helium by proton and antiproton impact
	19	Yoichi Nakai	Molecular formation through reactions of low-energy molecular ions with an ice surface under low temperature conditions
Poster 2 26-Jul 12:40 - 14:20	20	Claudia Carmen Montanari	Stopping power in transition metals, the importance of d-electron contribution
	21	Claudia Carmen Montanari	Machine learning model for K-shell ionisation
	22	Claudia Carmen Montanari	An Embedding-based Neural Network Approach for Allowing Stopping Power Prediction on Multi-elemental targets
	23	Taiki Okawa	The effect of irradiated ion on the swelling phenomenon of 4H-SiC
	24	Sota Otsuka	Positive and negative secondary ion emission from propanol droplets induced by fast heavy-ion collisions
	25	Dariusz Grzegorz Piekarski	Heavy atom roaming drives the nuclear dynamics of negative 3-bromo-4H-1,2,4-triazole
	26	Corey T Plowman	Electronically resolved excitation in proton collisions with H <sub>2</sub>
	27	Cholakka Parambath safvan	Evidence for the formation of excited fragments in the three body dissociation of methane
	28	Kanae Saito	Charge State Distributions of Ions Transmitted Through a Single-Layer Graphene Sheet under Fast Li <sup>+</sup> and Li <sub>2</sub> <sup>+</sup> Ion Irradiation
	29	Silvina Segui	Experimental K-shell ionization cross sections by electron impact: a comprehensive database for 1 ≤ Z ≤ 92
	30	Kade Spicer	Coupled-channel calculations of FDCS for ionisation in 75 keV p + He collisions: Emission of low-energy electrons
	31	Karoly Tokesi	State selective charge-exchange cross sections in collisions between Cq <sup>+</sup> ions with sodium atoms
	32	Karoly Tokesi	Energy loss function of samarium determined from the reflection electron energy loss spectroscopy spectra
	33	Karoly Tokesi	Electron capture cross sections in Ne8 <sup>+</sup> ions collision with H <sub>2</sub> and He
	34	Mayumi Umemura	Ionization of Noble Gases by Collisions with Fast Molecular Ions Depending on the Molecular Axis Orientation
	35	Xing Wang	Collision-induced atomic alignment and magnetic-substate ionization of medium- and high-Zt elements
	36	Yuichiro Yano	Vicinage effect on convoy electrons from carbon foils under heteronuclear diatomic ion bombardment
	37	Gui-Sheng Zeng	Influence of plasma ion state and epitaxial atoms in sputtering system