



ICACS & SHIM 2022 - Onsite poster session

Date: Tuesday, June 21

Time: 15:50 - 17:50

List of posters - onsite

- P1p The structure and phase composition stability of amorphous Zr irradiated with He ions
Aysha AlNeyadi, Sergey Zlotski, Nicolas Mora, Vladimir V. Ugllov
- P2p Surface and bulk modifications of 14 MeV Au ion-irradiated diamond
Katja Dorothee Bunk, Igor Alencar, Philipp Bolz, Wolfgang Morgenroth, Florian Bertram, Christian Schmidt, Christina Trautmann, Björn Winkler
- P3p Fast and accurate machine-learned interatomic potentials for high-entropy alloys
Jesper Byggmästar, Kai Nordlund, Flyura Djurabekova
- P4p Ion implantation, nano-carbon, doping
Boitumelo Joyce Matsoso, Daniel Wamwangi, Rudolph Martinus Erasmus, Neil John Coville, Trevor Ernest DERRY
- P5p Bond-specific fragmentation of oligopeptides via electronic stopping of swift heavy ions in molecular films
Pascal Schneider, Philip Keller, Ina Schubert, Markus Bender, Christina Trautmann, Michael Dürr
- P6p Simulation and characterization of hot spots generated in plasmas by fast quasi-monoenergetic ion beams
Juan Miguel Gil de la Fe, Pablo Rodríguez Beltrán, Rafael Rodríguez Pérez, Guadalupe Espinosa Vivas

- P7p Sputtering of highly corrugated and oriented surfaces
Martina Fellingner, Christian Cupak, Herbert Biber, Johannes Brötzner, Alvaro Lopez-Cazalilla, Raquel Gonzalez-Arrabal, Friedrich Aumayr
- P8p An atomistic simulation for the study of Nb-coated SRF cavities by HiPIMS method
Milad Ghaemikermani, Alvaro Lopez Cazalilla, Flyura Djurabekova
- P9p Measurement of oxygen charge state distribution from injected BeO- molecules for Be AMS
Basil Chacko Gonsalves, Kenichiro Mizohata, Kerttuli Helariutta, Pertti Tikkanen, Filip Tuomisto, Jyrki Räisänen
- P10p Bunching effects for the electronic straggling of H and He in the matter
Felipe Ferreira Selau, Andreia Molling, Henrique Trombini, Raul Carlos Fadanelli, Maarten Vos, Pedro Luis Grande
- P11p Neutron total scattering analysis of radiation effects in weberite-type oxides
Igor M. Gussev, Eric C. O'Quinn, Gianguido Baldinozzi, Christina Trautmann, Jörg Neuefeind, Changyong Park, Maik Lang
- P12p Sequential ion irradiation of GaN studied by MD simulations
Juraj Hanžek, Aleksi Leino, Henrique Vázquez, Flyura Djurabekova, Marko Karlušić
- P13p Effect of helium (He) and silver (Ag) co-implanted into SiC: structural evolution and migration behaviour
Thulani Hlatshwayo
- P14p Trajectory dependent charge state distribution for keV ions transmitted through crystalline materials
Radek Holeňák, Eleni Ntemou, Svenja Lohmann, Daniel Primetzhofer
- P15p Controlled modification of the Au: YSZ structures by high-energy ion irradiation: Structural and optical response in different crystallographic orientations
Adela Jagerova, Romana Miksova, Jakub Cajzl, Vaclav Holy, Marek Vronka, Anna Mackova
- P16p RBS dechanneling induced by perfect voids: W as a test-case material
Xin Jin, Flyura Djurabekova, Kai Nordlund
- P17p Surface Characterization of CaF₂ Crystals Irradiated with MeV Ions Below Charge State Equilibrium
Rajdeep Kaur, Petter Ström, Daniel Primetzhofer

- P18p Orientational relationship between SHI induced tetragonal ZrO₂ tracks and the monoclinic matrix
Michael Emmanuel Lee, Jacques Herman O'Connell, Vladimir Skuratov
- P19p Deuterium's effect on defect accumulation in tungsten during irradiation
Victor Lindblad, Fredric Grandberg, Jesper Byggmästar, Kai Nordlund
- P20p Trajectory dependence of electronic energy-loss straggling at keV ion energies
Svenja Lohmann, Radek Holeňák, Pedro L. Grande, Daniel Primetzhofer
- P21p Platinum silicide formation on silicon carbide substrates due to thermal annealing and swift heavy ion irradiation
Eric Njoroge, Thulani Hlatshwayo, Vladimir Skuratov
- P22p Nuclear stopping power of antiprotons: theory and experimental confirmation
Kai Nordlund, Masaki Hori, Dage Sundholm
- P23p Ultrashort pulsed beams of keV ions for materials science at Uppsala University – a status report
Eleni Ntemou, Radek Holeňák, Dan Wessman, Svenja Lohmann, Daniel Primetzhofer
- P24p Electronic Sputtering from H₂O:C₂H₆ ice bombarded by energetic heavy ions
Pablo Ramón Batista Oliveira, Rafael Martinez, Enio Frota da Silveira
- P25p Applying the inelastic thermal spike model to the investigation of ion tracks in polymers
Max S. da Rocha, João P. M. May, R. S. Thomaz, Ricardo M. Papaléo, Marcel Toulemonde
- P26p Trends in electronic stopping powers: the case of period 6
Marcos V. Moro, Eduardo Pitthan, Daniel Primetzhofer
- P27p Beam-plasma interaction in fast ignition nuclear fusion: hot-spot gains for different initial conditions
Pablo Rodríguez Beltrán, Juan Miguel Gil de la Fe, Rafael Rodríguez, Guadalupe Espinosa Vivas
- P28p Radiolysis of nucleobases by 230 MeV Ca ion beams: temperature dependence (17 - 335 K)
P.C.J. Ada Bibang, Z. Kanuchova, G.S.V Muniz, M. Bender, F. Koch, B. Merk, I. Schubert, D. Severin, C. Trautmann, G. Strazzulla, P. Boduch, A. Domaracka, Hermann Rothard

- P29p Adenine irradiated by 800 keV/u proton and helium beams: temperature dependent radiolysis
P.C.J. Ada Bibang, Z. Kanuchova, G.S.V. Muniz, P. Herczku, D.V. Mifsud, Z. Juhasz, S.T.S. Kovacs, S. Ioppolo, N.J. Mason, B. Sulik, P. Boduch, A. Domaracka, H. Rothard
- P1v Observation of ion latent tracks in semicrystalline polymers by scanning electron microscopy
Pavel Apel, Irina Blonskaya, Olga Kristavchuk, Sergey Mityukhin, Alexandr Nechaev, Olga Polezhaeva, Oleg Orelovich
- P31p Clocking the relaxation of hollow atoms in solids by x-rays
Lukasz Jabłoński, Dariusz Banaś, Paweł Jagodziński, Aldona Kubala-Kukuś, Daniel Sobota, Ilona Stabrawa, Karol Szary, Marek Pajek
- P32p Application of the XPS and TRXPS techniques for the analysis of Ti and TiO₂ surfaces after modification with slow highly charged Xe^{q+} ions
Aldona Kubala-Kukuś, Dariusz Banaś, Martyna Piwowarczyk, Ilona Stabrawa, Karol Szary, Daniel Sobota, Regina Stachura, Jolanta Wudarczyk-Moćko, Janusz Braziewicz, Marek Pajek
- P33p Analysis of TiO₂ and Ti nanolayers irradiated with Xe^{q+} ions using synchrotron radiation induced XRR and GIXRF methods
Regina Stachura, Aldona Kubala-Kukuś, Dariusz Banaś, Ilona Stabrawa, Karol Szary, Paweł Jagodziński, Giuliana Aquilanti, Iva Božičević Mihalić, Janusz Braziewicz, Marek Pajek, Jacek Semaniak
- P34p Molecular Dynamics Simulations of Electronic Sputtering in Amorphous Silica induced by Swift Heavy Ions
Francisco Sánchez-Pérez, Alejandro Prada, Mathieu Bailly-Grandvaux, Eduardo Bringa, María José Caturla, José Manuel Perlado, Jorge Kohanoff, Ovidio Peña Rodríguez, Antonio Rivera
- P35p Analytical model for the temperature field of a plasma heated by fast and monoenergetic ion beams
Guadalupe Espinosa Vivas, Juan Miguel Gil de la Fe, Rafael Rodríguez Pérez, Pablo Rodríguez Beltrán
- P36p The Effects of SHIs on Si₃N₄
Arno Janse van Vuuren, Anel Ibrayeva, Vladimir Skuratov, Maxim Zdorovets
- P37p A computational approach to the formation and free decay of hollow atoms
Matthias Werl, Anna Niggas, Károly Tókési, Friedrich Aumayr, Richard Arthur Wilhelm

P38p High-dose high-energy irradiation effects on the defect evolution in tungsten
Jintong Wu

P39p Investigation of He and Kr ion irradiation effects on NiCoFeCr and NiCoFeCrMn
high entropy alloys
Ali Yaqoob, Nicolas Mora, Vladimir V. Uglov