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**Electron Transfer and Emission in Highly Charged Ion-Surface Interactions** UWE THUMM, Dept. of Physics, Kansas State University, Manhattan, KS 66502, JENS DUCREE, University of Freiburg, Germany — This talk will address interactions of slow highly charged ions with metal and insulator surfaces, leading to the formation of unstable, multiply excited projectiles. We have simulated the formation and decay of such hollow ions on the basis of a refined classical over-barrier model. These simulations include the full trajectory of the projectile and allow for the simultaneous evaluation of projectile kinetic energy gains, final charge-state distributions, and emitted Auger electron yields. Ducree et al., Phys. Rev. A **60**, 3029 (1999). Bahrim et al., NIM B **164**, 614 (2000).

Prefer Oral Session

Prefer Poster Session

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