

Abstract Submitted
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Ionization of Lithium using the HI-5 Model¹ A L HARRIS, J LYON,
A PLUMADORE, M BATES, Illinois State University — The study of heavy-ion
collisions with atoms is an increasingly active area of collision physics. We introduce
the Heavy-Ion 5-Body (HI-5) model for charged particle collisions, which is only re-
cently possible due to improvements in computing capabilities. Using our model, we
present fully differential cross sections for inner and outer shell ionization of lithium
using heavy-ion projectiles. Results are compared to other theoretical models, and
the role of electron correlation is studied.

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