

Abstract Submitted
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Li₂ – Li reactive collisions at high initial j MARK ROSENBERRY,
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— Inelastic molecular collisions are a fundamental process in astronomy and chemistry. We are studying collisions of ⁷Li₂ with ⁷Li in a heat pipe oven, and looking for nuclear parity-changing events that signal a chemical reaction. Previous work in our group studied such reactions for low initial j; we are now working to collect data for the case of high initial j, where quasi-resonant phenomena occur. We have also incorporated new corrections for multiple collisions in our analysis. Quasi-classical trajectory calculations are used to model these reactions and extract physical insight.

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