

Abstract Submitted
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Reactive collisions in ${}^7\text{Li}_2$ with large initial rotation MARK ROSENBERRY, Siena College, JACOB FANTHORPE, BRIAN STEWART, Wesleyan University — The study of molecular collisions is fundamental to astronomy and chemistry. We present results for collisions of ${}^7\text{Li}_2$ with ${}^7\text{Li}$ within a heat pipe. These reactive collisions can be observed at odd Δj values, unlike the simple inelastic collisions of a noble gas atom with the dimer. Our present work is compared against previous values obtained for low initial j , and also against predictions made using quasi-classical trajectory calculations. We will also comment on V-R resonance, observed for this transition in collisions between ${}^7\text{Li}_2$ and Ne.

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