

Abstract Submitted  
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**Rediscovering Kepler's Third Law using NASA data** JASON KEITH, PAUL SPRINGSTEEN, University of Texas at El Paso, Physics Dept., ASTROPHYSICS TEAM — Kepler's three laws of planetary motion were discovered around four hundred years ago using data that was meticulously gathered by Tycho Brahe through naked eye observations. Here we will show that the same Kepler's result illustrated in his third planetary law still holds today, by using modern data from NASA. In addition, we discuss how all three of Kepler's laws of planetary motion can be derived directly from Newton's Gravitational law.

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