## Physics & Astronomy Seminar

## **Exploring Orbital Interception**

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term's of angular momentum rather than the more familiar linear momentum. This small change has significant implications for motion and results in some non-intuitive results, like going backward to move forward. In this talk, we will imagine ourselves as pilots of a spacecraft on a mission to dock with the ISS. In order to accomplish our objective, we must choose the appropriate thrust vectors for the interception and rendezvous. Our analysis will examine the space of possible intercept solutions, sensitivity to control parameters, and the possibility of fastintercept maneuvers Analysis of the orbital motion of spacecraft requires that we think in

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