



Characterizing Potentially Hazardous Asteroids with NEOWISE

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- NEOWISE detected ~600 NEOs in four infrared wavelengths
- Equally sensitive to bright and dark NEOs
- Detections and discoveries treated the same way
- Sample of ~100 potentially hazardous asteroids (PHAs) observed by NEOWISE indicates that there are $\sim 4700 \pm 1500$ PHAs larger than 100 m when survey biases are accounted for
- NEOWISE detected 2x more PHAs in low inclination orbits than model predicts
 - Possibly more hazard to Earth, and possibly more low Δv rendezvous targets

Edge-on view of solar system

- NEOs
- PHAs