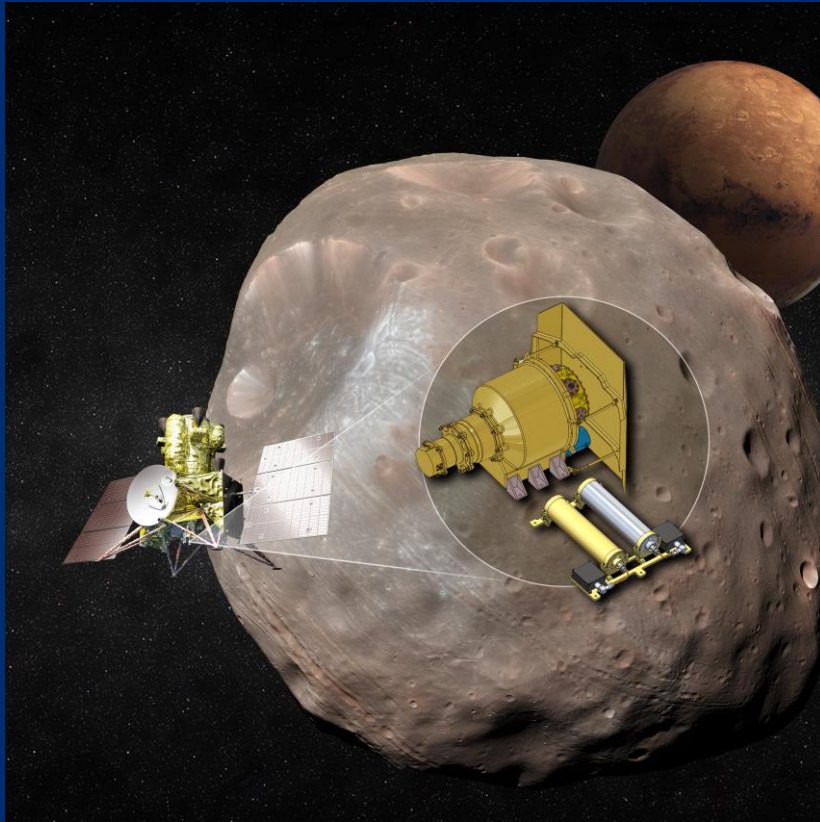


Using Gamma-ray and Neutron “Glasses” to Measure Phobos’ Elemental Composition



- Mars-moon Exploration with Gamma rays and NEutrons (MEGANE) is an instrument that will measure the elemental composition of Mars’ moon Phobos.
 - Measured elements include: hydrogen, oxygen, magnesium, silicon, potassium, calcium, iron, and thorium.
- MEGANE is part of the Japanese Martian Moons eXploration mission, which will orbit Phobos, then return a sample of Phobos to Earth.
- MEGANE is also a Japanese word meaning “glasses”.
 - More information at: <http://megane.jhuapl.edu>

By measuring the composition of Phobos, MEGANE will help resolve the question of whether Phobos is a captured asteroid or the remnants of a giant impact into Mars.