

**Opportunity for Harvard undergrads to design/build  
REXIS –The student experiment approved by NASA to fly (2016)  
on the selected NASA mission, OSIRIS-REx, to an Asteroid!  
(<http://hea-www.harvard.edu/REXIS/class.html>)**

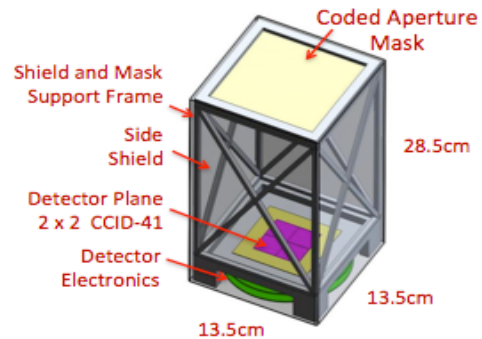
**Harvard Sophomores - Seniors interested in space instruments – *here is rare opportunity to cross register for a course at MIT (16.831/12.431) in Spring 2012 (MIT: Tues. 1:00-5:00pm & Harvard: Thurs. 2:00-4:00pm) that will teach you how design and build a real space flight science instrument!*** REXIS is a small (2.7kg), compact (~1 ft<sup>3</sup>) X-ray imaging camera with a ~30° field of view that will measure and image the X-ray lines (fluoresced by incident solar X-rays) which measure the surface composition (O, Mg, Si, S, Fe, etc.) of the Near-Earth asteroid, 1999RQ36, which has a ~1 in 1800 chance of impacting Earth in 2170! The REXIS instrument concept was proposed in 2010 by Harvard (Prof. Grindlay's group) to colleagues at MIT (Profs. Binzel and Miller) in the Earth & Planetary Science and Aero/Astro Departments to be the *student experiment* solicited by NASA for its OSIRIS-REx mission to conduct a close encounter and sample return from 1999RQ36. MIT is a Co-Investigator institution on the mission and leader in student experiments on space missions through its EAPS and Aero/Astro Departments. Harvard sophomores, juniors and seniors from CS, Engineering (SEAS), EPS, Astronomy, and Physics are invited.

Come to **MIT Bldg. 35, Room 225** (Bldg. on corner of Mass. Ave. & Vassar St., Cambridge), **1pm Tuesday FEB. 7, 2012.**

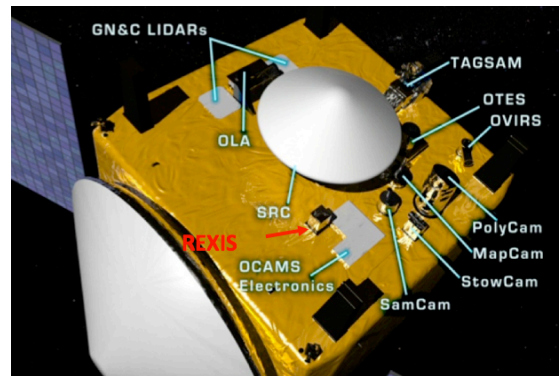
**For course description & schedule, see:**  
<http://hea-www.harvard.edu/REXIS>

or, contact Prof. Josh Grindlay, Harvard/CfA, 617-495-7204, [josh@cfa.harvard.edu](mailto:josh@cfa.harvard.edu),

Dr. B. Allen ([ballen@cfa.harvard.edu](mailto:ballen@cfa.harvard.edu)) or Dr. J. Hong ([jhong@cfa.harvard.edu](mailto:jhong@cfa.harvard.edu))



**REXIS: MIT-Harvard student instrument**



**REXIS mounted on OSIRIS-REx**



**OSIRIS-REx mission sampling the asteroid 1999RQ36 (in 2020)**