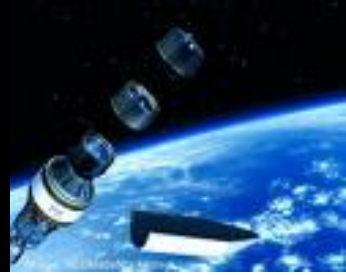
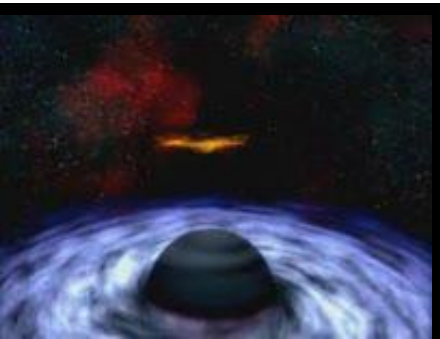
CU PHYSICS DEPARTMENT PARTICLE SEMINAR

Wednesday, April 9, 2008 705 Pupin Hall 1:00 PM



LISA: Astrophysics out to z~10 with low-frequency gravitational waves

The Laser Interferometer Space Antenna (LISA) is a joint ESA-NASA mission that anticipates observing the inspiral and merger of massive black holes resulting from galactic mergers, the inspiral of intermediate mass black holes and the inspiral of compact objects into supermassive black holes, as well as thousands of close, compact binaries in our own Galaxy and possibly other exotic sources. The LISA mission concept has been stable for 15 years, and the architecture is unusually well-developed. The technology development has advanced to the point that flight hardware is being built for the LISA Pathfinder mission, scheduled for launch in 2010. The science, the concept, the instrumentation and the status of the mission will be described.



Robin Stebbins, NASA/GSFC