

## SEMINAIRE du Service d'Astrophysique



### The new symbiotic low mass X-ray binary system 4U 1954+319

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**ATTENTION JOUR INHABITUEL**

**Vendredi 15 décembre 2006  
11h00**

*High energy observations are revealing a broad variety of binary systems hosting a compact remnant. We will present the results of INTEGRAL, Swift, BeppoSAX, and RXTE/ASM data analysis of 4U1954+319, a source whose nature was unclear since its discovery by the Uhuru satellite, 25 years ago. The highly absorbed spectrum and the timing characteristics point towards a binary system in which a neutron star accretes matter from the stellar wind of its companion, an M-type giant star. Thus 4U1954+319 is the second confirmed member of the emerging class dubbed "symbiotic low-mass X-ray binaries" to host a neutron star. With a spin period of about 5 hours, 4U1954+319 is the slowest accretion-powered X-ray pulsar. We will consider this feature in the framework of standard binary pulsar evolutionary models.*

Le séminaire sera donné en français

**Ce séminaire aura lieu au CEA Saclay - Orme des Merisiers - bâtiment 709, Salle 003.**