



Contribution ID: 180

Type: Talk

Multiwavelength observations of gamma-ray loud binaries

Saturday, 5 December 2015 15:05 (20 minutes)

Gamma-ray loud binaries are a recently identified class of X-ray binaries in which interaction of an outflow from the compact object (black hole or neutron star) with the wind and radiation emitted by a companion star leads to the production of very-high energy (VHE) gamma-ray emission. Only five systems have been firmly detected so far as persistent or regularly variable TeV gamma-ray emitters. Detailed studies of the broadband spectral and timing properties of these sources are crucial for understanding the nature of these peculiar objects. In my talk I will review the outcome of extensive multiwavelength observations of the 2014 PSR B1259-63 periastron passage, which shed a light on the nature of the puzzling GeV flare from the system, and also discuss what can we learn from the numerous X-ray observations of LSI +61 303 performed the last decade by SWIFT, Suzaku, XMM and Chandra satellites.

Primary author: CHERNYAKOVA, Maria (DCU)

Co-authors: Dr NERONOV, Andrii (ISDC); Mr MALYSHEV, Denys (ISDC); Dr VOVK, Ievgen (MPG); Mr BABYK, Iurii (DCU); Dr TSYGANKOV, Sergey (Tuorla Observatory)

Presenter: CHERNYAKOVA, Maria (DCU)

Session Classification: 18 - Gal. accel. & pulsars