

8-13 September 2019 CNR/INAF Research Area, Bologna, Italy

Contribution ID: 221

Type: Poster

Low Mass X-ray Binaries: Not conservative mass transfer and orbital evolution

Friday, 13 September 2019 14:46 (2 minutes)

Orbital evolution in Low Mass X-ray Binaries is important in order to define the long-term evolution of these systems and their connection with millisecond pulsars through the recycling scenario. Timing analysis of periodic signals in binaries gives information on their orbital period changes on timespan of tens of years. Although this timespan is still short with respect to the secular evolution of a single source, the study of the results obtained from different systems can give some information on their secular evolution. I will review and update results obtained on the orbital period changes observed both in Low Mass X-ray Binaries and in Accreting Millisecond Pulsars, highlighting their long-term behavior as well as peculiarities and discussing the growing evidences for non-conservative mass transfer in these systems.

Topic

Compact and diffuse sources in galaxies and in the Galactic Center

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Session Classification: POSTER SESSION