

2nd International Interdisciplinary Workshop on Time Series Analysis (CNRS/MASTODONS)



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Astronomy - photon: Fast timing variability in X-ray binaries: methods & diagnosis

lundi 12 décembre 2016 14:20 (30 minutes)

In this talk I will first introduce the astrophysical systems at the core of my research, X-ray binaries (a.k.a. microquasars), and will in particular focus on their temporal properties. I will then show how we can try to understand the mechanisms at work in these sources through a timing approach, i.e. the study of their X-ray light curve and associated evolution on long (day) timescale. Rapid (sub-second) variability is studied through Fourier analysis which has shown a vast richness of behavior in these sources, allowing to go deeper into several domains of (astro)-physics.

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