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SCIENCE DATA CENTRE

Centre attaché à l'Observatoire de Genève



UNIVERSITÉ DE GENÈVE

## ASTROPHYSICS SEMINAR



Wednesday, 29 March 2006 at 11:00

# Understanding Black Hole Binaries: Recent Highlights

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**Abstract.** I briefly review the development of the current picture of black hole states, including recent work using X-ray hardness intensity diagrams to characterize the evolution of outbursts of black hole binaries. Selected results from modeling RXTE and INTEGRAL observations of Cyg X-1, GRS 1758-258, and GX 339-4 will be presented, covering the observation of an unusual state (soft/off state), high time-resolution analyses (Lorentzian decomposition of the power spectrum, time lags), and broad band spectral modeling ("eqpair" models, jet models). The results highlight the importance of monitoring observations at radio and X-ray wavelengths as well as the importance of applying physical accretion models, e.g., models including emission from the jet.

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### Additional Information

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The seminars are given in the ISDC "Pavillon" building  
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