

## ASTROPHYSICS SEMINAR

Tuesday, 22 December 2009 at 11:00

# High energy processes in microquasar/medium interactions

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**Abstract.** Emission at high and very high energies is expected from microquasars. Gamma-ray fluxes could be originated both in the inner regions of the binary system and further away in the surrounding medium. In this talk I will focus on some theoretical models based on hadronic and leptonic processes occurring at the base of the jet, as well as on the study of the non-thermal emission produced in the jet/ISM interaction regions. The predicted fluxes are compared to recent observations of some well-known systems in the TeV regime and at lower energy bands. These studies put some constraints on the physical properties of microquasars, and are used to define future observation strategies for these systems in the gamma-ray domain.

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### Additional Information

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The seminars are given in the ISDC "Pavillon" building  
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