

ASTROPHYSICS SEMINAR

Thursday, 26 February 2009 at 11:00

Quantum of Quasars: The hard branch of microquasars and their potential for quantum astronomy

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Abstract. Microquasars are black-hole binaries with jets. Nowadays, they are studied mostly in X- and gamma-rays where the inner accretion disk emits most of its energy. I will present new theoretical results from the model of Grenoble. In particular, I will show how this new model produce 3 disk solutions among which a very hot optically thin geometrically thick inner disk. This solution can be used to model the hard branch of the hysteresis diagram. I will show that the theoretical hard branch limits and its tilt represent new and strong(er) constraints on the behavior and characteristics of microquasars accretion disk. I will finish by trying to replace microquasar's observations on a more global context. I will then present some speculative ideas about their potential as best targets for what is now called quantum astronomy, opened up 50 years ago by the intensity interferometry.

Additional Information

The seminars are given in the ISDC "Pavillon" building
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