

JETSET FP6, "Jet Simulations, Experiments, Theory" 10 years later, what is next?



ID de Contribution: 16

Type: Non spécifié

Mass accretion impacts in classical T Tauri stars: a multi-disciplinary approach

jeudi 24 mai 2018 14:30 (20 minutes)

Accretion of matter is a process that plays a central role in the physics of young stellar objects. The analysis of the structure by which matter settles on the star can unveil key information about the process of star formation by providing details on mass accretion rates, stellar magnetic field configurations, possible effects of accretion on the stellar coronal activity, etc.

Here we review some of the achievements obtained by our group by exploiting a multi-disciplinary approach based on the analysis of multi-dimensional magnetohydrodynamic simulations, multi-wavelength observations, and laboratory experiments of accretion impacts occurring onto the surface of CTTSs. We discuss the future perspectives especially in view of new generation world-class instruments as JWST (in the optical) and Athena (in the X-rays).

Contribution

Talk

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Classification de Session: S6 Future Projects