

**Service d'Astrophysique**  
**SÉMINAIRE**

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**Mardi 03/11/2015, 10h00-11h00**

**CEA Saclay, Orme des Merisiers Bat 713, salle de séminaires Galilée**

**FORMATION OF GIANT PLANETS AND BROWN  
DWARFS VIA DISK FRAGMENTATION**

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Gravitational instability and fragmentation in the early evolution of circumstellar disks is a common occurrence, which leads to a zoo of various effects depending on the ultimate fate of the fragments. I will demonstrate how disk fragmentation can trigger episodic accretion onto the star similar in magnitude to FU-Orionis-type eruptions, produce gas giants and brown dwarfs on wide orbits, and explain the existence of young proto-brown dwarfs in million-year-old stellar clusters.

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Le cafe sera servi 10 minutes avant

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