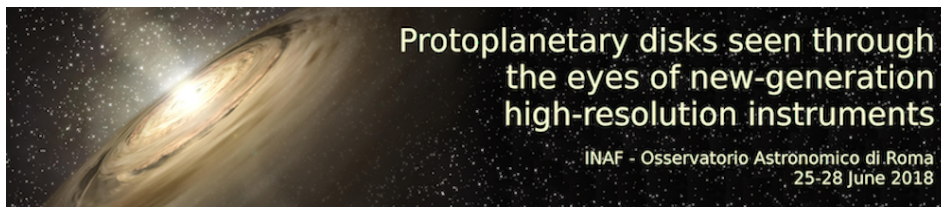


Protoplanetary disks



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The inner astronomical units of protoplanetary disks: and interferometric view

Tuesday, 26 June 2018 10:00 (20 minutes)

The physical structure and processes in the inner regions of protoplanetary disks within 5 au from the source are still poorly constrained, yet they are key for understanding planet formation. Only recently, IR interferometers have been able to perform the first statistical study of the dust in the inner disk, but a similar study on the gas is still lacking.

In this talk, I will present the first results of GRAVITY/VLTI GTO program on YSOs. Through this ambitious project we aim at spatially resolving the hot ($\text{Br}\gamma$) and warm (CO) gas in disks, as well as the dust emission on a large sample of young objects (~ 100) spanning a wide range of masses, ages and disk properties. This will allow us to investigate for the first time the structure, evolution and dynamics of disks at sub-au scales by probing the gas and dust content simultaneously in a systematic and homogeneous way.

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