

Catherine Espaillat – Colloquium – March 11, 2021
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Title: Multiwavelength Accretion Variability in Young Stellar Objects

Abstract: Many pre-main-sequence stars are accreting material from their surrounding protoplanetary disks. How accretion occurs is a fundamental question in Astronomy. Multiwavelength variability studies can provide insight into how accretion proceeds and is tied to the inner disk. It has been clearly demonstrated that young stars are quite variable, particularly with respect to accretion. However, the connection between the star and the inner planet-forming regions of their protoplanetary disks is still largely unexplored, especially in the time domain. This talk will review multiwavelength variability observations of young stars and their protoplanetary disks. To conclude, I will discuss possibilities for future progress in time-domain studies of these young systems.