



## Astrosociences Seminar

# Stars Disrupted, Destroyed and Coalesced

**Iair Arcavi**

Tel Aviv University

Host: Astronomers

Supernovae, tidal disruption events and merging neutron stars can provide a wealth of physical insights from nuclear physics to cosmology; they can teach us about the creation of the elements, the formation of compact objects, accretion processes, feedback, galaxy evolution, and more. I will present how my research group is investigating the nature of tidal disruption events and their surprising emission properties; how we are using supernovae to constrain late-stage stellar evolution and explosion, and asteroseismology to constrain the inner structure of massive stars; and how we are hoping to find more gravitational-wave counterparts through multi-observatory coordination.

**Thursday, December 12, 2024 11:00am - 12:00pm**

Central Bldg / O1 / Mondl 1



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.