Forming Rocky Planets by Chondrule Accretion

Åke Nordlund, Niels Bohr Institute University of Copenhagen

- Popovas et al (2018, MNRAS): Rocky planes can form rapidly
 - By accretion of mm-size chondrules, not dm-size "pebbles"
 - Hill sphere 3-D gas & dust dynamics with 500,000 scale range
 - Cancellation effects make growth rate estimates robust
- Schiller et al (2018, Nature): Rocky planets did form rapidly
 - Shown by systematic 48Ca isotope fingerprints
 - Confirmed by Fe isotope fingerprints (Schiller et al, 2019)

