

Collisional Growth from dust to Planets and Protoplanetary Disks Observed by ALMA

*Hiroshi Kobayashi¹, Satoshi Ohashi²

1. Department of Physics, Nagoya University, 2. RIKEN

We carried out a simulation for planet formation from dust to planets directly via collisions. The growth of dust results in a bright ring in a protoplanetary disk, which is called the growth front. The radial profile around the dust front depends on collisional outcomes for mm-sized or larger dust particles. We discuss it using ALMA data.

Keywords: Planet Formation, Protoplanetary disk