

10th RESCEU/Planet² Symposium

November 28-30, 2017 Koshiba Hall The University of Tokyo

http://www.resceu.s.u-tokyo.ac.jp/symposium/resceu_sympo2017/



Planet

2nd

Formation

Around

Snow

Line

SOC: Y. Suto (Chair)
Y. Alibert, S. Desch, M. Ikoma,
H. Kawahara, H. Kobayashi,
M. Nagasawa, J. Winn

LOC: T. Kodama (Chair)

INVITED SPEAKERS :

Y. Alibert, O. Benomar, S. Desch, A. Higuchi,
M. Honda, A. Howard, S. Ida, T. Iizuka, M. Ikoma,
A. Johansen, H. Kawahara, T. Kleine,
H. Kobayashi, T. Kotani, K. Masuda, M. Nagasawa,
H. Nomura, M. Ogihara, S. Okuzumi, C. Ormel,
J. Owen, T. Sumi, T. Suzuki, M. Tamura, G. Tinetti,
J. Venturini, L. Weiss, J. Winn



1st Planet² Symposium

"Origin and diversity of planetary systems
from the microscope to the telescope"

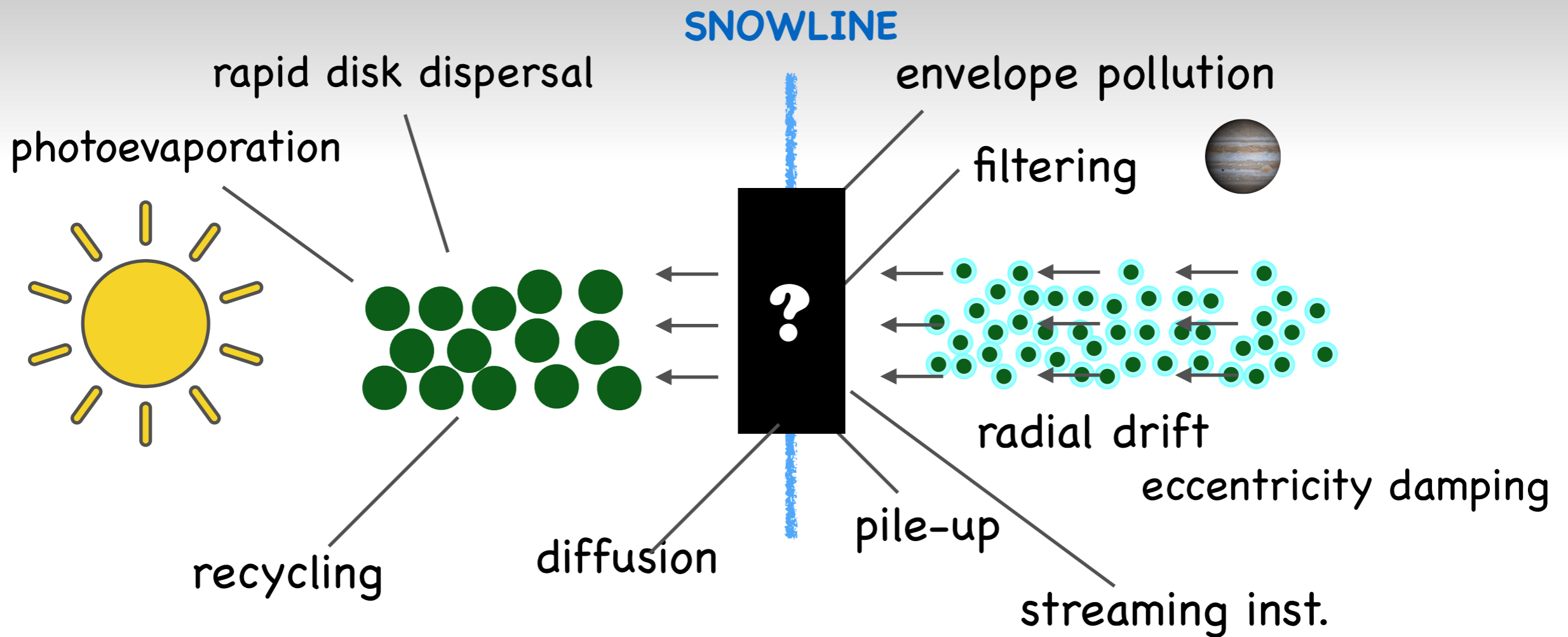
@ **Villefranche sur Mer**, France

20-23 Feb. 2017



Apparent conflicts

- **Rocky** exoplanets with short periods vs. **Icy** pebbles radially drifting
 - Good news for our Earth with tiny amount of water?
- Many **failed** cores (incl. Uranus & Neptune) vs. **Early formation** of Jupiter
- **Similar** planets in multi-planet systems vs. **Different** planets in Solar system
- **Diverse** structure of PPDs vs. Rings and gaps as theoretically **natural** outcome
- etc.



Of special importance are interactions between

- **Solid and gas** in protoplanetary disks and envelopes both physically and chemically (planetesimal formation, solid and gas accretion)
- **Planet and disk & Planet and planet** (migration)
- **Planet and star** (photo-evaporation, tide, obliquity change)
- **Magnetic field and disk** (disk dispersal, inner edge)
- **Observers and theorists**

Next Few Years

- **ALMA** continues to yield exciting findings regarding PPDs and debris disks.
- The **IRD for SUBARU** is starting the RV observation of exoplanets orbiting low-T stars.
- **Hayabusa2** & **OSIRIS-REx** will touch down on the asteroids Ryugu & Bennu, respectively.
- **TESS, CHEOPS** & **JWST** will be launched and perform an all-sky survey and physical/chemical characterization of exoplanets, respectively.
- The next core-to-core symposium?

Many Thanks

Speakers:

O. Benomar, A. Higuchi, M. Honda, A. Howard, S. Ida, T. Iizuka, A. Johansen, T. Kohno, K. Masuda, H. Nomura, S. Okuzumi, C. Ormel, J. Owen, T. Sumi, T. Suzuki, M. Tamura, G. Tinetti, J. Venturini, L. Weiss + the contributed speakers

SOC members

Y. Alibert, S. Desch, H. Kobayashi, M. Nagasawa, J. Winn

LOC members

T. Kodama, T. Suda, S. Nagano, C. Ueda, J. Yokoyama, S. Wang, T. Hayashi, S. K. Nugroho, and all the other students