

Workshop on Astrochemistry in Star and Planet Formation

RIKEN

February 16, 2016

- 9:40 Welcome Address
- 9:45 - 10:15 **Bertrand Lefloch (IPAG)**
The ASAI view on the evolution of molecular complexity along the formation of sun-like stars
- 10:15 - 10:45 **Tomoya Hirota (NAOJ)**
Hot water disk around Orion Source I
- 10:45 - 11:15 **Izaskun Jimenez-Serra (UCL)**
The physical and chemical structure of low-velocity MHD shocks
- 11:15 - 11:45 **Jose Cernicharo (ICMM)**
Carbon chemistry in evolved stars: The Nanocosmos project
- 11:45 - 13:00 Lunch
- 13:00 - 13:30 **Evelyne Roueff (Paris)**
Isotopic fractionation of carbon, deuterium and nitrogen: a full chemical approach
- 13:30 - 14:00 **Naoki Watanabe (Hokkaido U.)**
Experimental approach to ortho-to-para ratio of hydrogen and water molecules desorbed from ice at around 10 K
- 14:00 - 14:30 **Toshiyuki Azuma (RIKEN)**
Cooling dynamics of negative carbon cluster ions studied by an ion storage ring
- 14:30 - 15:00 **Charlotte Vastel (IRAP)**
New insights on the earliest phase of low-mass star forming regions
- 15:00 - 15:30 Coffee break
- 15:30 - 16:00 **Yuri Aikawa (Tsukuba U.)**
Chemistry in the disk formation
- 16:00 - 16:30 **Yoko Oya (U. Tokyo)**
A drastic change in the disk forming regions

16:30 - 17:00 **Linda Podio (Arcetri)**

Sulfur chemistry in Class 0 disks and jets with ALMA

17:00 - 17:30 **Jaime Pineda (MPI)**

From cores to disk: Just follow the gas

17:30 - 18:00 **Hideko Nomura (TITEC)**

ALMA observations of CO gas depletion in the protoplanetary disk around TW Hya

18:15 - 20:00

Dinner