

- ARCHES workshop - October 2008, 27 - 28th -
- Elementary mechanisms of hydrogen / carbon-surface interactions -
- Program -

October, Monday 27th

10:00 - 10:50 Welcoming coffee

10:50 - 11:00 Welcoming remarks

Review 1 chair: M. Châtelet

11:00 - 12:00 L. Hornekaer

Adsorption / desorption / recombination (experimental methods)

12:00 - 13:30 Lunch

Review 2 chair: M. Châtelet

13:30 - 14:30 K. Hassouni

Erosion / deposition / growth in plasma processes

Astrophysics chair: J.-L. Lemaire

14:30 - 15:00 V. Mennella

Role of H / C interactions in the evolution of hydrogenated carbon grains in the ISM

V. Mennella

15:00 - 15:30 C. Joblin

Hydrogen / carbon interactions: the case of PAHs

15:30 - 16:00 Break

Plasma processes

chair: G. Cartry

16:00 - 16:30 C. Hopf

Chemical sputtering of C with atomic H, synergetic effects

16:30 - 17:00 R. Clergreaux

Atomic H effect on erosion / deposition mechanisms

17:00 - 18:30 Discussions and posters

20:00 Dinner in Le Vieux Port (La Nautique)

October, Tuesday 28th

Simulations chair: D. Teillet-Billy

09:00 - 09:30 C. Girardet

Can KMC simulations and rate equations provide interpretation of desorption of H/gr.

09:30 - 10:00 M. Sizun

Classical simulations of H / graphite interactions

10:00 - 10:30 Break

10:30 - 11:00 S. Cazaux

H₂ formation on graphitic and amorphous-carbon grains in the ISM

11:00 - 12:00 Discussions and posters

12:00 - 13:30 Lunch

Negative ion formation chair: W. Jacob

13:30 - 14:30 H. Khemliche & M. Carrère

Electron capture on a graphite surface

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14:30 - 15:00 S. Béchu
Vibrationally excited H₂ formation on graphite surface

15:00 - 15:45 Discussions and conclusions