



“Origins of Life Chemistries & Evolution”

Workshop organized by Jean-François Lambert and Marie-Christine Maurel

Monday, February, 17, 2020. Chemistry department, 32-42, 1st floor, room 101, Jussieu Campus

10:00-10:25: Welcome coffee

10:25-10:30: Opening remarks by **Marie-Christine Maurel** – ISYEB-SU.

10:30-11:15: “Chemical evolution of RNA and protein-like molecules compatible with the primitive Earth environments and the two-gene hypothesis for initiation of life-like system”
Kunio Kawamura – Hiroshima Shudo University

11:15-11:30: “Autocatalysis in chemical networks: unifications and extensions” **Alex Blokhuis**
– LBC (ESPCI)

11:30-11:45: “Molecular-level study of small biomolecules on mineral surfaces” **Hagop Abadian** – LRS

11:45-12:00: “The study of selectivity in amino acid polymerization on silica surfaces” **Lise Bedoin** – LRS

12:00-12:15: “A geochemical origin for pyrimidine biosynthesis?” **Louis Ter-Ovanesian** – LRS and ISYEB

12:15-12:30: “Evolution through RNA recombination in the origins of life” **Cyrille Jeancolas**
– LBC (ESPCI)

Buffet-style lunch

14:00-14:35: “Emergence of growth and natural selection in compartmentalized autocatalytic reactions” **Philippe Nghe** – LBC (ESPCI)

14:35-15:10: “Experimental studies of UV and X-rays induced desorption from interstellar molecular ices” **Mathieu Bertin** – LERMA

15:10-15:45: “Exploring the diversity of exoplanetary environments towards remote detection of life” **Marc Ollivier** – IAS-Orsay

Coffee break

16:15-16:50: “Synthesis of RNA nucleotides by quantum computational methods” **Marco Saitta** – SU

16:50-17:25: “The organic matter in the comet 67P as revealed by the Rosetta mission” **Hervé Cottin** – U-PEC

17:25-17:30: Closing remarks by **Jean-François Lambert** – LRS-SU

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