

Workshop #4 – Synthetic Polymers

Chaired by Pr Laurence Charles, Aix Marseille University, France

The workshop will discuss different technical approaches to characterize synthetic polymers in the megaDalton range, as well as strategies to assess conformational features of synthetic polymers in the gas phase using ion mobility and appropriate models for collision cross section determination.

The workshop is for users who already have basic knowledge in mass spectrometry of synthetic polymers.

Part I – Mass Spectrometry of Synthetic Polymers: Towards the MegaDalton Range	
13H00	"MALDI-TOF of Mega Dalton Dendrimers - Obstacles and Benefits" Dr Hans Joachim RÄDER – Max Planck Institute for Polymer Research, Mainz, Germany
13H45	"Hyphenated Laser-Charge Detection MS Approaches for Ultra-High-Molecular-Weight Polymers: Playing with Heavier Things." Rodolphe ANTOINE – Université Lyon I, Lyon, France
14H30	"NEMS-MS Characterization of Megadalton Polymer Nanoparticles" Dr Mohammad Abdul HALIM & Dr Christophe MASSELON – CEA, Grenoble, France
15H00	<i>Break (30 min)</i>
Part II – Ion Mobility Spectrometry for Synthetic Polymers	
15H30	"Calibration Strategies to Assess Conformation of Synthetic Polymers" Pr Edwin DE PAUW – University of Liège, Belgium