From First Molecules to Life (SYML)

jointly organized by
the Mass Spectrometry Division (MS) and
the Molecular Physics Division (MO)

Robin Golser
Fakultät für Physik
Universität Wien
Währinger Str. 17
1090 Wien
Österreich
robin.golser@univie.ac.at

Gereon Niedner-Schatteburg
Fachbereich Chemie
Technische Universität
Kaiserslautern
Erwin-Schrödinger-Straße
67663 Kaiserslautern
gns@chemie.uni-kl.de

Lutz Schweikhard
Institut für Physik
Universität Greifswald
Domstr. 10a
17487 Greifswald
Lutz.schweikhard@physik.uni-greifswald.de

The Symposium "From first Molecules to Life" illustrates processes in space which concatenate on the way from primordial atomic and ionic matter to condensed matter and exosolar planetary atmospheres - prerequisites for subsequent evolution of life. The first session focusses explictly on astrophysical topics while the second session takes a remote stand and comprises of novel laboratory studies on molecular and ionic matter in isolation.

Overview of Invited Talks and Sessions

(Lecture room e415)

Invited Talks

SYML 1.1	Wed	11:00–11:30	e415	**Laboratory studies of interstellar molecules: from the first molecules to complex organics in space** — •Holger Kreckel
SYML 1.2	Wed	11:30–12:00	e415	**Detecting astrophysically relevant ions in laboratory and space** — •Stephan Schlemmer
SYML 1.3	Wed	12:00–12:30	e415	**Interstellar ice - a hot topic** — •Harold Linnartz
SYML 1.4	Wed	12:30–13:00	e415	**Exoplanets: The Thorny Path to Habitable Conditions** — •Manuel Güdel
SYML 2.1	Wed	14:30–15:00	e415	**Physics with keV Ion Beams in the Cryogenic Storage Ring CSR** — •Andreas Wolf
SYML 2.3	Wed	15:15–15:45	e415	**A generalized theory for rovibrational motion in cold, extremely floppy molecules** — •Hanno Schmiedt, Per Jensen, Stephan Schlemmer
SYML 2.6	Wed	16:15–16:45	e415	**Lead-cluster investigations at ClusterTrap** — Stephan König, Paul Fischer, Gerrit Marx, •Lutz Schweikhard, Markus Wolfram, Albert Vass

Sessions

SYML 1.1–1.4	Wed	11:00–13:00	e415	**From First Molecules to Life**
SYML 2.1–2.6	Wed	14:30–16:45	e415	**Molecules and Ions in Isolation**