

Seminar Sophus Lie XXXVI
Sophus Lie in Transylvania
Cluj-Napoca, July 4/6, 2008

Program

All lectures will take place in the main building of the
Babeş-Bolyai University, Kogălniceanu str. 1

Friday, 4.7.2008

The lectures will take place in the *Vasile Bogrea* hall (first floor, turn to the right).

- 9:15 – 9:30 Registration
- 9:30 – 9:40 Welcome
- 9:40 – 10:00 Sophus Lie meets János Bolyai
- 10:00 – 10:30 Dorin Andrica (Cluj-Napoca, Romania):
The image of the exponential map and some applications
- 10:30 – 11:10 Coffee break
- 11:10 – 12:00 Tomi Alaste (Oulu, Finland):
The notion of slowly oscillating functions and applications to compactifications
- Lunch break**
- 14:10 – 15:00 Mahmoud Filali (Oulu, Finland):
On the quotient of function spaces on a topological group
- 15:00 – 15:30 Coffee break
- 15:30 – 16:50 Karl H. Hofmann (Darmstadt, Germany) and Brigitte Breckner (Cluj, Romania):
Semigroups and Lie Theory
- 17:00 – 19:00 Guided tour: historical centre of Cluj

Conference Dinner

Saturday, 5.7.2008

The lectures will take place in the *Tiberiu Popoviciu* hall (first floor, turn to the left).

9:00 – 9:40 Rafael Dahmen (Paderborn, Germany):
Complex analytic mappings between LB-spaces with applications in Lie theory

9:50 – 10:40 Karl-Hermann Neeb (Darmstadt, Germany):
Invariant cones in infinite-dimensional Lie algebras

10:40 – 11:20 Coffee break

11:20 – 12:10 Daniel Beltiță (Bucharest, Romania):
Infinite dimensional versions of classical reductive Lie groups

Lunch break

14:10 – 15:00 Liviu Augustin Mare (Regina, Canada):
Equivariant cohomology of real flag manifolds

15:00 – 15:30 Coffee break

15:30 – 16:20 Alice Fialowski (Budapest, Hungary):
Formal deformations, contractions and moduli spaces of Lie algebras

16:20 – 17:10 Cornelia Vizman (Timișoara, Romania):
Several incarnations of the Hamiltonian group

Dinner

Sunday, 6.7.2008

Transylvania tour: excursion to Sibiu, European Capital of Culture 2007.