

Sofic and Hyperlinear groups and the Connes Embedding Conjecture

Course Program:

Monday

- 1) Introduction to the Connes Embedding Problem V
- 2) Introduction to Kaplanski's Conjectures M

Tuesday

- 1) Introduction to sofic and hyperlinear groups; Kervaire-Laudenbach conjecture M
- 2) Some classes of sofic and hyperlinear groups; hyperlinear groups and Connes Embedding Problem V

Wednesday

- 1) Length groups and model theoretic characterization of sofic and hyperlinear groups M
- 2) Exercises V

Thursday

- 1) Commutator contractive length functions and Higman group M
- 2) Ranked rings and Kaplanski's direct finiteness conjecture for sofic groups M

Friday

Exercises M

Monday

- 1) Haagerup-Winslow topological approach to the Connes Embedding Problem V
- 2) Sketch of the proof of Kirchberg's theorem V

Tuesday

- 1) Model theory of tracial von Neumann algebras M
- 2) The algebraic eigenvalues conjecture M

Wednesday

- 1) Entropy for actions of sofic groups M
- 2) Exercises M

Thursday

- 1) Lance WEP V
- 2) Lance WEP V

Friday

Exercises V