



FMSP Lectures

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Rational homotopy theory:

Quillen and Sullivan approach.

April 20 (Wednesday)

15:00 ~ 16:00, 16:10 ~ 17:10 Room 002

April 21 (Thursday)

15:00 ~ 16:00, 16:10 ~ 17:10 Room 002

Abstract: We will give in detail the foundations of rational homotopy theory from both, the approaches of D. Quillen and D. Sullivan. They are based on the equivalences between the homotopy categories of rational simply connected complexes (resp. nilpotent complexes of finite type) and that of reduced differential graded Lie algebras (resp. "nilpotent" commutative differential graded algebras of finite type). Applications and problems from both approaches will be given.