MATH 592. DESCRIPTIVE SET THEORY.

Credits: 4

Offered by: Mathematics and Statistics (Faculty of Science)

This course is not offered this catalogue year.

Description

Polish spaces; universality of the Hilbert cube, the Cantor space, and the Baire space; the Cantor-Bendixson theorem; Baire spaces; the Borel hierarchy; change of topology techniques; infinite games; analytic and co-analytic sets; analytic separation; the Luzin-Souslin theorem; the Borel and measure isomorphism theorems; regularity properties of analytic sets; uniformization; the projective hierarchy. Optional topics: Polish groups and their actions; definable equivalence relations and graphs; effective descriptive set theory.

- Winter
- Prerequisites: MATH 454 or MATH 451 or permission of the instructor.

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