MATH 566. ADVANCED COMPLEX ANALYSIS AND RIEMANN SURFACES

Credits: 4

Offered by: Mathematics and Statistics (Faculty of Science)

This course is not offered this catalogue year.

Description

Brief review of holomorphicity and contour integration. Analytic continuation and the monodromy theorem, normal families. Riemann surfaces; elliptic functions; Picard theorem. Riemann zeta function and prime number theorem. Relations with harmonic analysis; the uniformization theorem. Time permitting, additional material such as: Hodge decomposition, divisors, the Riemann Roch formula, or rudiments of moduli spaces.

- Fall
- Prerequisites: MATH 249 and MATH 455

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