

Modular functions and computer algebra

11.08

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Time: Monday 22.07., 17:00 - 17:30, Room HS 4

Abstract: The talk reports on recent progress concerning computer algebra related to modular functions. Examples are a proof of the Weierstrass gap theorem without using the Riemann-Roch formula, or a new algorithmic framework for proving Ramanujan's celebrated congruences for partition numbers.

Most of the results presented arose in joint work with Silviu Radu (RISC).