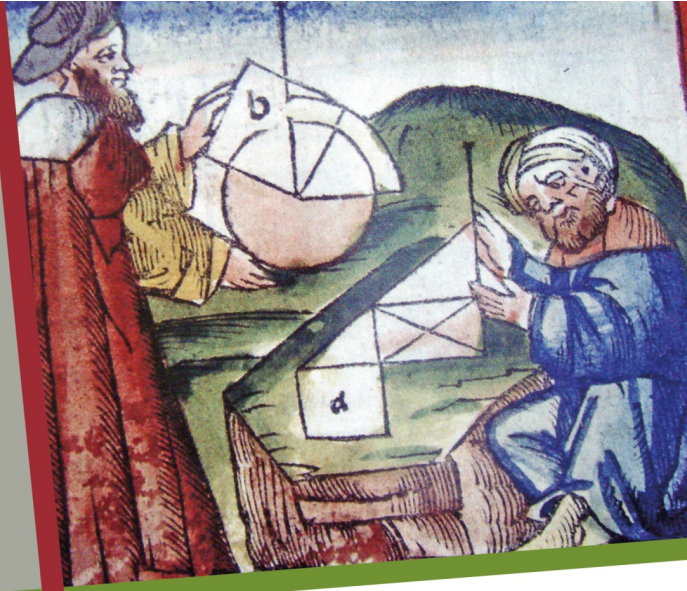




UNIVERSITÀ DEGLI STUDI
DI TRENTO

Dipartimento di Matematica



SEMINARI

Thursday November 13th, 2025 – at 14:00

Seminar Room 1, Via Sommarive 14

Geometry Seminar (GeoSem)

Luca Schaffler
(Università Roma Tre)

An explicit wall crossing for the moduli space of hyperplane arrangements

Abstract:

The moduli space of hyperplanes in projective space has a family of geometric and modular compactifications that parametrize stable hyperplane arrangements with respect to a weight vector. Among these, there is a toric compactification that generalizes the Losev-Manin moduli space of points on the line. We study the first natural wall crossing that modifies this compactification into a non-toric one by varying the weights. As an application of our work, we show that any \mathbb{Q} -factorialization of the blow up at the identity of the torus of the generalized Losev-Manin space is not a Mori dream space for a sufficiently high number of hyperplanes. Additionally, for lines in the plane, we provide a precise description of the wall crossing. This is joint work with Patricio Gallardo.

Contact persons: R. Pignatelli, E. Postinghel, L. Solá Conde

Sponsored by: PRIN2022 project “Birational geometry of moduli spaces and special varieties”. PNRR Missione 4 - Componente C2 - Investimento 1.1 “Fondo per il Programma Nazionale di Ricerca e progetti di Rilevante Interesse Nazionale (PRIN)” Prot. n. 20223B5S8L, CUP E53D23005400001



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