

Topics in Algebraic Geometry (Toric Varieties)

Syllabus

Instructor: Venkatraman Lakshmibai, 517 Lake Hall, x 5637,
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Time and place: Tuesday and Thursday, 7:30 p.m.

Office hours: TBA

Text: TBA

TOPICS TO BE COVERED: Affine & Projective toric varieties, Combinatorics & Geometry of toric varieties – convex polyhedral cones, fans associated to toric varieties, orbit structure of toric varieties, singularities, cohomology theory, intersection theory of toric varieties, toric degenerations of certain algebraic varieties.