

**VENTOTENE INTERNATIONAL WORKSHOPS VII  
HIGHER DIMENSIONAL HYPERBOLIC GEOMETRY  
VENTOTENE, 8-13 SEPTEMBER 2025**

THE GEOMETRY AND TOPOLOGY  
OF ARITHMETIC HYPERBOLIC MANIFOLDS OF SIMPLEST TYPE

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This talk will discuss geometric and topological properties of arithmetic hyperbolic manifolds of simplest type—these are precisely the class of arithmetic hyperbolic manifolds that contain an immersed co-dimension one totally geodesic submanifolds. In particular, this talk will be a "warm-up" talk for Nick Miller's lecture series, and will hopefully connect with the lecture series given by Kontorovich and Martelli.