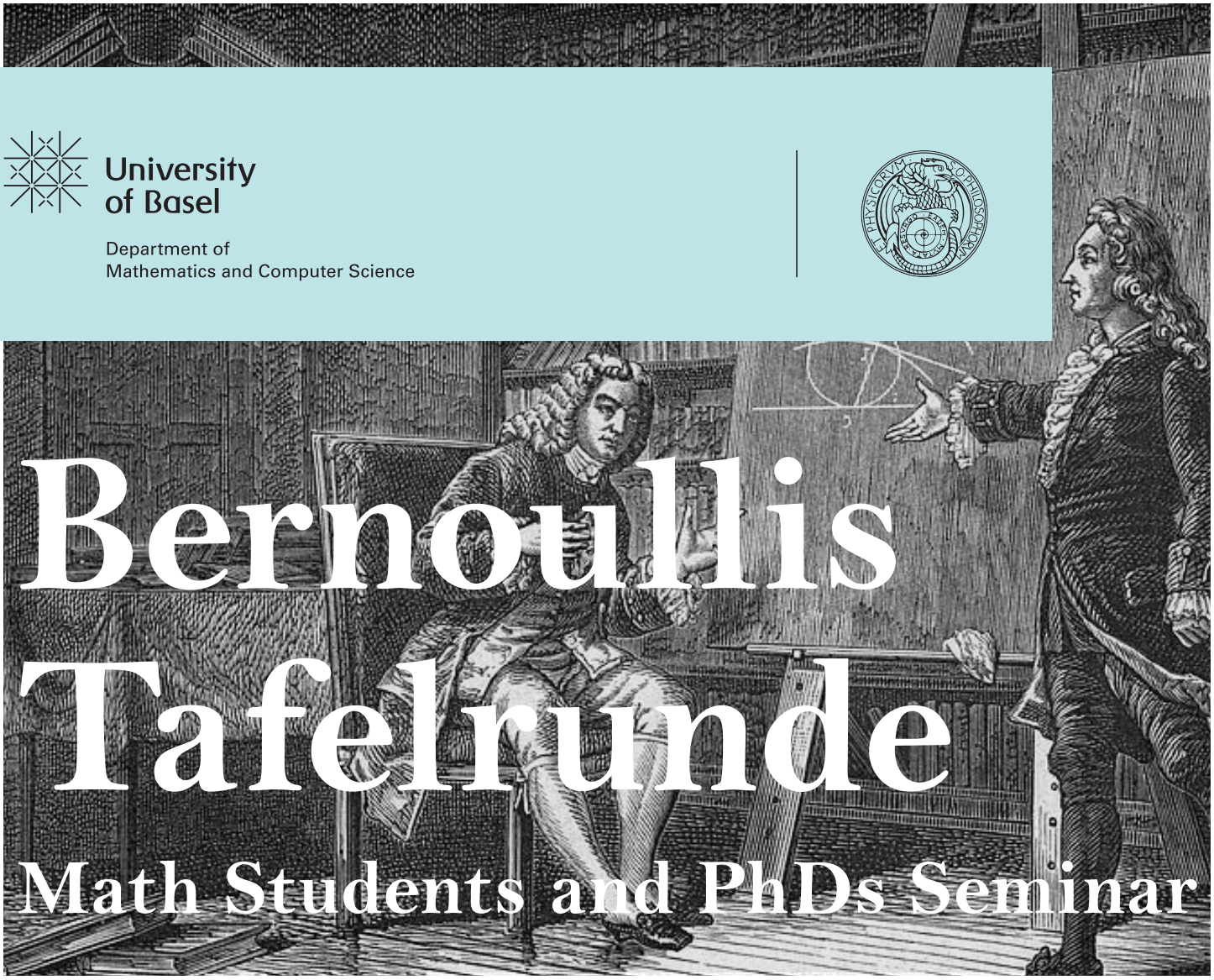
University of Basel

Department of
Mathematics and Computer Science



Bernoullis Tafelrunde

Math Students and PhDs Seminar

Nice quotients of complete flag varieties

Michele Bianco (Università di Trento)

Abstract

Rational homogeneous varieties G/P generalize projective spaces and Grassmannians, and they are very simple objects from the birational point of view: they carry a transitive action of a semisimple group G, hence they are smooth rational Fano varieties, and in fact Mori dream spaces. Even so, their quotients by natural torus actions, such as the action of a maximal torus of G, turn out to be hard to understand. In this talk I will introduce the necessary background, starting from algebraic groups and rational homogeneous varieties and moving on to GIT and Chow quotients. In the last part I will present the main results of recent joint work with L. Barban and L. E. Solá Conde on maximal geometric quotients of complete flag varieties.

November 09, 2026 at 12:15

DMI, Spiegelgasse 5, SR 05.002

Scan the QR code to read the abstract and register for lunch