
BERN-FRIBOURG GRADUATE SEMINAR

a seminar for Master and PhD students

Thursday 12th May, 2022: 17:15 - 18:00

Room B7, Exakte Wissenschaften, Bern

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The Grassmannian as a projective variety

Abstract

The Grassmannian $Gr(k, V)$ parametrizes the k -dimensional subspaces of a vector space V , and it pops up in many different areas of mathematics. In this talk we present some of its basic algebro-geometric properties. We start by recalling the definition of a (projective) variety. After this the famous *Plücker embedding* will be introduced. Finally, we show that the Plücker embedding allows to see the Grassmannian as a projective variety.