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Yi Zhu* (yzhu@math.utah.edu), Department of Mathematics, University of Utah, Salt Lake City, UT 84112. *Homogeneous Spaces over Function Fields of Dimension Two.*

Let K be either a global function field or a function field of an algebraic surface. Johan de Jong formulated the following principle: a “rationally simply connected” K -variety admits a rational point if and only if the elementary obstruction vanishes. In this talk, I will discuss how this principle works for projective homogeneous spaces. In particular, it leads to a classification-free result towards the quasi-split case of Serre’s Conjecture II over K . (Received September 20, 2012)