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Abstracts of Short Communications and Posters

Section:

4. Algebraic Geometry

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Hausen, Jürgen, Universität Konstanz, Germany

Toric Quotients

Let H be a subtorus of the big torus of a toric variety X. The following result, presented in a joint work with A. A'Campo–Neuen (Konstanz) will be discussed: The action of H on X admits a *toric quotient*, i. e., there exists an H–invariant toric morphism $p: X \to Y$ that is universal with respect to H-invariant toric morphisms $f: X \to Z$. Relations to other notions of quotients for the action of H on X will be given and generalizations to the category of toric prevarieties will be considered.

Reference: A. A'Campo–Neuen and J. Hausen, Quotients of Toric Varieties by the Action of a Subtorus. To appear in *Tohoku Math. J.* .