

Cox rings of cubic surfaces and Fano threefolds

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Abstract:

Universal torsors are important tools to study rational points on algebraic varieties. A concrete global description of universal torsors can be obtained by determining generators and relations for the Cox rings of the varieties. We discuss new results on Cox rings of cubic surfaces and Fano threefolds (joint work with J. Hausen, A. Heim, S. Keicher, A. Laface).