

Algebraic Geometry - Mariusz Koras in memoriam

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## KORAS-RUSSELL THREEFOLDS: GEOMETRY, ALGEBRA, TOPOLOGIES AND BEYOND

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ABSTRACT. These threefolds have played a central role in the development of higher dimensional affine algebraic geometry during the last decades. They more recently attracted the attention of other fields in geometry, such as symplectic topology and  $\mathbb{A}^1$ -homotopy theory. In this panoramic talk, I will review many classical as well as much less known properties of these threefolds, with a particular focus on potential interactions with other fields of research and open problems.