Abstract

A Fano variety of Picard number 1 is said to be *birationally solid* if it is not birational to a Mori fiber space over a positive-dimensional base. In this memoir, we complete the classification of quasi-smooth birationally solid Fano 3-fold weighted hypersurfaces.

Keywords. Fano variety, weighted hypersurfaces, birational solidity, Sarkisov links, divisorial contractions, rationality questions

Mathematics Subject Classification (2020): 14J45 (primary); 14J30, 14E07, 14E08 (secondary)

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