



Leibniz
Universität
Hannover

Oberseminar Institut für Algebraische Geometrie

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On the Iitaka volumes of log canonical surfaces and threefolds

For projective log canonical pairs (X, B) with nonnegative Iitaka—Kodaira dimension k , the Iitaka volume $\text{vol}_k(K_X + B)$ measures the asymptotic growth of the pluricanonical systems. In the general type case, it is just the usual notion of volume, and plays a key role in the classification theory. In this talk, I will report on some results about the distribution of the Iitaka volumes of log canonical surfaces and threefolds with intermediate Kodaira dimensions. In particular, I will present the minimal possible Iitaka volume of a projective log canonical surface X with $k(K_X) = 1$. The talk is based on joint work in progress with Guodu Chen and Jingjun Han.

Donnerstag, 11.07.2024, 16:30 - 17:30, F142.

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Alle Interessierten sind herzlich eingeladen.