



Leibniz
Universität
Hannover

Oberseminar
Institut für Algebraische Geometrie

Yota Maeda
(Kyoto University)

On the Kodaira dimension of unitary Shimura
varieties

The Kodaira dimension of Shimura varieties has been studied by many people. Kondo, Gritsenko-Hulek-Sankaran and Ma showed that certain orthogonal Shimura varieties related with the moduli spaces of K3 surfaces are of general type by using the Borchers lift. On the other hand, Gritsenko-Hulek proved some orthogonal Shimura varieties are uniruled. In this talk, we consider similar problems for unitary Shimura varieties. We give some sufficient conditions for general type or uniruledness of unitary Shimura varieties in terms of Hermitian forms by using the Borchers form and reflective modular forms. Moreover, we construct Hermitian lattices satisfying the above conditions.

Donnerstag, 26.11.2020

16:30 - 17:30

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Alle Interessierten sind herzlich eingeladen.