Oberseminar Zahlentheorie und arithmetische Geometrie

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The Barnes-Wall lattice and O'Grady's six dimensional manifold

In this joint work with G. Saccà and A. Rapagnetta, we investi-Gate some arithmetic properties of the Barnes-Wall lattice and we use it to construct the O'Grady six dimensional manifold as the quotient of a manifold by an involution. With this construction we are able to determine the Hodge numbers of O'Grady's manifold. Time permitting, I will also discuss more results which can be obtained from this construction, like the monodromy group and the movable cone of O'Grady's manifold.

Donnerstag, 10.12.2015, 12:00 – 13:00, g117

Alle Interessierten sind herzlich eingeladen.