Department of Mathematics, BGU

AGNT

On *Wednesday, December ,8 2021*

At *16:00 − 17:15*

In *101-*

David Ter-Borch Gram Lilienfeldt (HUJI)

will talk about

Experiments with Ceresa classes of cyclic Fermat quotients

Abstract: We give two new examples of non-hyperelliptic curves whose Ceresa cycles have torsion images in the intermediate Jacobian. For one of them, we find that the central value of the L-function of the relevant motive is non-vanishing, consistent with the conjectures of Beilinson and Bloch. We speculate on a possible explanation for the existence of these torsion Ceresa classes, based on some computations with cyclic Fermat quotients. This is joint work with Ari Shnidman.