

Otto-von-Guericke-Universität Magdeburg
Fakultät für Mathematik

Auf Einladung des Institutes für Algebra und Geometrie spricht

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über das Thema

Double-coset zeta functions for groups acting on trees

Zeit: Dienstag, 24. Januar 2023, 13.00 Uhr, G03-214 oder
per Zoom Meeting ID 971 4945 5855, passcode 490213

Zu diesem Vortrag laden wir alle Interessierten herzlich ein.

Dr. Josh Maglione

Abstract: Given a totally disconnected locally compact group G and a compact open subgroup U , one can count how many double-cosets UgU in G satisfy $|UgU/U| = n$, for any positive integer n . This generates a sequence whose associated Dirichlet series is called the "double-coset zeta function of the pair (G, U) ". I will present some new results concerning such zeta functions in the case G has a "nice" action on a locally finite tree. Using the running example of $SL_2(\mathbb{Q}_p)$, we will discuss the convergence and the meromorphic continuation of the series, and then give a criterion for connecting the value of this last in -1 and the Euler-Poincaré characteristic of the group.