

Termine

"Fixed points of group actions on unitary partition complexes"

Referentin: Prof. Dr. Julie Bergner, University of Virginia

The poset of nontrivial partitions of a finite set can be geometrically realized to obtain a topological space equipped with an action of the symmetric group. This space and its fixed point spaces by actions of subgroups of the symmetric group has been investigated in a series of papers by Arone, Dwyer, and Lesh and is expected to lead to a new proof of The Whitehead Conjecture. In joint work with Joachimi, Lesh, Stojanoska, and Wickelgren, we consider instead nontrivial decompositions of a finite dimensional complex vector space into orthogonal subspaces, which form a topological poset. We investigate its geometric realization and the fixed point spaces by actions of subgroups of the unitary group.

Datum: Montag, 25.09.17 **Uhrzeit:** 14:00 - 15:00 Uhr

Veranstalter: Mathematisch-Geographische Fakultät

Ort: [Raum 103, Kollegengebäude, Bau A, Ostenstraße 28, Eichstätt](#)

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