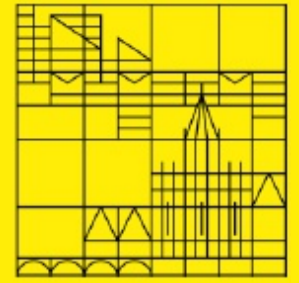


# Konstanz

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# Frauen in der Mathematik

Dienstag 24.01.2017  
17:00-18:15

Raum: F426

## "Intense automorphisms of groups"

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Let  $G$  be a finite group. A good strategy for understanding the structure of  $G$  is that of studying its group of symmetries,  $\text{Aut}(G)$ . Let  $\text{Int}(G)$  be the subgroup of  $\text{Aut}(G)$  consisting of those automorphisms (called "intense") that send each subgroup of  $G$  to a conjugate. Intense automorphisms arise naturally as solutions to a problem coming from Galois cohomology, still they give rise to a greatly entertaining theory on its own. We will discuss the case of groups of prime power order and we will see that, if  $G$  has prime power order but  $\text{Int}(G)$  does not, then the structure of  $G$  is (surprisingly!) almost completely determined by its nilpotency class.

Zum Vortrag ergeht herzliche Einladung.

Unterstützt durch Gleichstellungsrat  
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