Algebra
Seminar

Admissible Groups Over Number Fields

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Abstract: Given a field K, one can ask which finite groups G are Galois groups of field extensions L/K such that L is a maximal subfield of a division algebra with center K. Such a group G is called *admissible* over K. Like the inverse Galois problem, the question remains open in general. But unlike the inverse Galois problem, the groups that occur in this fashion are generally quite restricted. In this talk, I will discuss some results and open problems about groups that are admissible over number fields.

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