Sharply 2-transitive groups

Katrin Tent

Universitt Mnster, Germany
`tent@math.uni-muenster.de`

Finite sharply 2-transitive groups were classified by Zassenhaus in the 1930s and were shown to have regular abelian normal subgroups. While there were partial results in the infinite setting the question whether the same holds for infinite groups remained open. We show that this is not the case and give a general construction for obtaining sharply 2-transitive groups without abelian normal subgroup.