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Knörr lattices for elementary abelian p -groups

An approach to Brauer's height zero conjecture due to Knörr leads to the study of a very rich family of p -adic representations of p -groups. These representations are called Knörr lattices. After outlining the approach to Brauer's conjecture, I will give a construction of positive height Knörr lattices for elementary abelian p -groups, and discuss bounds for the height in terms of the rank of the group. This is joint work with G. Robinson. Several open questions will be advertised.