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Highly arc transitive digraphs

We resolve two questions by Cameron, Praeger, and Wormald [Combinatorica 1993] on highly arc-transitive digraphs (shortly, hats). Hat is an infinite digraph that is s -arc-transitive for every s .

We construct a hat with universal reachability relation for all possible degrees that were not ruled out by results of Praeger and Malnic. Second, we disprove a conjecture concerning structure of two-ended hats and provide an approach towards characterizing these graphs. (joint with B.Mohar and M.DeVos)