

**Mixed Cayley graphs of diameter two of order asymptotically approaching the Moore bound**

Jana Šiagiová  
Slovak University of Technology  
Radlinského 11, 813 68 Bratislava, Slovakia  
E-mail: jana.siagiova@stuba.sk

For a range of parameters  $\Delta$  and  $d$  we present constructions of mixed Cayley graphs of ‘undirected’ degree  $\Delta$ , ‘directed’ degree  $d$  and diameter 2 such that the ratio of their order and the quantity  $(\Delta + d)^2 + d + 1$  (the mixed Moore bound for diameter 2) tends to 1 as  $\Delta + d \rightarrow \infty$ .