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Yuval Roichman* (yuvalr@math.biu.ac.il), Department of Mathematics, Bar-Ilan University,
52900 Ramat-Gan, Israel. *Symmetric Group Characters and Applications.*

Old and recent formulas and bounds for the characters of the symmetric group will be surveyed. Various combinatorial, probabilistic and graph theoretical applications will be given, with a focus on graph expansion. (Received September 18, 2007)