## **RACHAEL QUINLAN**, National University of Ireland Galway Characters of covering groups of elementary abelian 2-groups

A covering group of the elementary abelian 2-group Q of rank n is a group G for which  $G/G' \cong Q$  and G' = Z(G) is elementary abelian of order  $2^{\binom{n}{2}}$ . Designating a particular covering group amounts G to writing the square of each of the nelements of a minimal generating set for G as a product of the  $\binom{n}{2}$  simple commutators in the generators. One may investigate whether and when different such designations yield non-isomorphic covering groups. In this talk we discuss the question of how many characters of a covering group of Q may be real-valued, and describe up to isomorphism those groups in which the maximum possible number of real-valued characters is attained.