1023-20-371

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37620. *The Strong Symmetric Genus of the Finite Coxeter Groups.*

In this talk we will give the strong symmetric genus of the finite Coxeter groups. The strong symmetric genus of a finite group G is the smallest genus of a closed orientable topological surface on which G acts faithfully as a group of orientation preserving automorphisms. The finite Coxeter groups are the finite Euclidean reflection groups. The current results build on earlier results of Marston Conder, who found the strong symmetric genus for the alternating and symmetric groups. (Received September 09, 2006)