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Regular Cayley maps and skew morphisms of monolithic groups

Skew morphisms, which generalise automorphisms for groups, provide a fundamental tool for the study of regular Cayley maps and, more generally, for finite groups with a complementary factorisation $G = BY$, where Y is cyclic and core-free in G . We will explain the connection between these topics and discuss some recent results on the case when B is a monolithic group.