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Cross-Characteristic Representations of $Sp_6(2^a)$ and Their Restrictions to Proper Subgroups.

We classify all pairs (V, H) , where H is a proper subgroup of $G = Sp_6(q)$, q even, and V is an ℓ -modular representation of G for $\ell \neq 2$ which is absolutely irreducible as a representation of H . This problem is motivated by the Aschbacher-Scott program on classifying maximal subgroups of finite classical groups. (Received July 28, 2012)