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Miriam Cohen* (mia@math.bgu.ac.il), Department of Mathematics, Ben Gurion University, Beer Sheva, Israel, and **Sara Westreich** (swestric@mail.biu.ac.il), , Israel. *Characters of projective modules and invariants of the adjoint action*. Preliminary report.

We study certain aspects of finite-dimensional non-semisimple symmetric Hopf algebras and their duals. We investigate the set $I(H)$ of characters of projective H -modules which we prove to be an s -stable ideal of $\text{Coc}(H^*)$ of dimension equal to the rank of the Cartan matrix associated to H . This ideal corresponds via the Frobenius map to $\Lambda_{ad}H$ where Λ is an integral of H and ad is the left adjoint action of H on itself. We study $\Lambda_{ad}H$ via primitive and central primitive idempotents of H . (Received July 25, 2007)