EXAMPLES OF NON-SEMISIMPLE HOPF ALGEBRAACTIONS ON ARTIN-SCHELTER REGULAR ALGEBRAS

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Abstract: Let k be a base field of characteristic p > 0 and let U be the restricted enveloping algebra of a 2-dimensional nonabelian restricted Lie algebra. We first study the representations of U and describe the Green ring of U. Then we classify all innerfaithful U-actions on noetherian Koszul Artin-Schelter regular algebras of global dimension up to three. This is a joint work with Dingguo Wang and James J. Zhang.