

Ringel—Hall algebras of cyclic quivers and affine q —Schur algebras

Bangming Deng^{*}

dengbm@bnu.edu.cn

WEB: math.bnu.edu.cn/~dengbm/

We begin with a polynomial identity arising from the commutator formulas in double Ringel—Hall algebras of cyclic quivers. We then study the structure of affine q —Schur algebras in terms of Ringel—Hall algebras.

This is based on joint work with J. Du and Q. Fu.

^{*}Mathematical Sciences Center, Tsinghua University, Beijing 100084, PR CHINA.