

DAHA ACTIONS ON FUSION ALGEBRAS

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Abstract: Fusion categories and their fusion algebras arising from quantum groups at roots of unities give for instance rise to 3-manifold invariants, are interesting from a more representation theoretic point and were partly also studied via methods from integrable systems. In this talk I like to revisit some of the classical theory and study the fusion algebras for classical Lie algebras again in more detail from a new perspective. In particular I like to connect it with Cherednik's double affine Hecke algebras (DAHAs).