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Emanuel I Stoica* (immanuel@math.mit.edu), 77 Massachusetts Ave, 2-089, Cambridge, MA 02139. *Unitary Representations of Rational Cherednik Algebras and Hecke Algebras.*

In this talk I will explain the classification of unitary irreducible representations in the highest weight category of the rational Cherednik algebra of the symmetric group and how unitarity is preserved by the KZ functor, that maps highest weight modules to modules over the corresponding Hecke algebra. (Received February 16, 2010)