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**Stephen Griffeth\*** ([sgriffeth@inst-mat.otalca.cl](mailto:sgriffeth@inst-mat.otalca.cl)), Instituto de Matematica y Fisica, Talca, Chile. *Unitary representations of rational Cherednik algebras of classical type.*

We discuss how a certain Specht-module valued generalization of Jack polynomial may be used to classify the unitary irreducible modules in category  $\mathcal{O}$  for the rational Cherednik algebras of “classical type”, corresponding to the monomial reflection groups. As in the classification of unitary modules in other areas of Lie theory, the unitary modules are classified into families of varying codimensions in the parameter space, with the most complicated ones occurring at isolated points. (Received July 27, 2011)