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Gwyn Bellamy* (G.E.Bellamy@sms.ed.ac.uk), 7 Maes Wyre, Llanrhystud, Aberystwyth,
Ceredigion SY23 5AH, Wales. *Rational Cherednik algebras at $t=0$.*

In this talk I shall describe some the basic properties of rational Cherednik algebras at $t = 0$. In particular, I shall explain how these algebras can be used to decide whether there exist symplectic resolutions for a large class of symplectic quotient varieties. (Received January 25, 2010)