1083-16-99   **Martina Balagovic*** (`martina.balagovic@york.ac.uk`). *Category $\mathcal{O}$ for Rational Cherednik Algebras in Positive Characteristic.*

To a complex reflection group W, its reflection representation $\mathfrak{h}$, and a collection of parameters t, c, one can associate the rational Cherednik algebra $H_{t,c}(W, \mathfrak{h})$ as an associative, noncommutative algebra encoding the structure of Dunkl operators. There is a natural definition of category $\mathcal{O}$, and a question of calculating characters of irreducible objects in it. In this talk I will discuss the case when the underlying field is of positive characteristic. This is joint work with Harrison Chen. (Received August 22, 2012)