1134-16-116 **Ivan Loseu***, 360 Huntington Avenue, Boston, MA 02115. *Modular categories O for type A rational Cherednik algebras.*

We will discuss modular analogs of categories O for type A rational Cherednik algebras (over fields of very large positive characteristic). These categories consist of finitely generated graded modules and are highest weight in a suitable sense. The main result of the talk is the existence of two standardly stratified structures on the modular category O (with regular integral parameter) whose associated graded categories are reductions to characteristic p of the usual categories O (with positive and negative rational parameters). (Received August 27, 2017)