

Generalized Jack and Macdonald polynomials arising from AGT conjectures

Yusuke Ohkubo

Nagoya University
Furo-cho, Chikusa-ku
Nagoya-shi, Aichi-ken
Japan

Joint work with: Yusuke Ohkubo

A sort of generalization of Jack polynomials is given in the point of view of AGT conjectures which is correspondence between 2-dimensional conformal field theories and 4-dimensional gauge theories. By these polynomials, conformal blocks are decomposed into the form of Nekrasov formula. In this talk, I will explain some properties of generalized Jack polynomials and its q -deformation, that is generalized Macdonald polynomials. It can be introduced by using the coproduct of the Ding-Iohara-Miki algebra.