

Stochastic duality functions, qKZ and degenerate Macdonald polynomials

Jan de Gier *

jdgier@unimelb.edu.au

We discuss a method for constructing duality observables in integrable stochastic particle processes from polynomial solutions to the quantum Knizhnik-Zamolodchikov equation that are constructed using non-symmetric Macdonald polynomials at $q^k t^r = 1$.