## q-deformed Painlevé $\tau$ function and q-deformed conformal blocks M. Bershtein

We propose q-deformation of the Gamayun-Iorgov-Lisovyy formula for Painlevé  $\tau$  function. Namely we propose formula for  $\tau$  function for q-difference Painlevé equation corresponding to  $A_7^{(1)}$  surface (and  $A_1^{(1)}$  symmetry) in Sakai classification.

In this formula  $\tau$  function equals the series of q-Virasoro Whittaker conformal blocks (equivalently Nekrasov partition functions for pure SU(2) 5d theory).

The talk is based on the joint work with A. Shchechkin [arXiv:1608.02566]