

A proof of a noncommutative analog of Witten's conjecture

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An explicit formula for the double ramification cycle on the moduli space of curves was proposed by Pixton several years ago and soon proved by Janda–Pandharipande–Pixton–Zvonkine. Actually, Pixton's formula gives a nonhomogeneous deformation of the double ramification cycle. In a joint work with P. Rossi we proved that the intersection numbers with this deformed class gives a solution of a noncommutative KdV hierarchy defined on the space of functions in two variables with the usual product replaced by the Moyal star-product. I will try to explain the main ideas of our proof.

Orateur: BURYAK, Alexander