Seminar/Talk

Hypergeometric and q-hypergeometric solutions of quantum differential equations

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Host: Tamas Hausel

I will discuss hypergeometric and q-hypergeometric solutions of the equivariant quantum differential equations and associated qKZ difference equations for the cotangent bundle T^*F_λ of a partial flag variety. These two types of solutions manifest two types of Landau-Ginzburg mirror symmetry for the cotangent bundle. I will discuss a "gamma theorem", which says the leading term of the asymptotics of the q-hypergeometric solutions can be written in terms of the equivariant gamma class of T^*F_λ. That statement is analogous to the statement of the gamma conjecture for Fano varieties by Galkin, Golyshev, and Iritani.

Thursday, May 17, 2018 01:00pm - 03:00pm
Big Seminar room Ground floor / Office Bldg West (I21.EG.101)

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