A geometric construction of W-algebras and AGT

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We present a program which associates, to a smooth projective surface S and to a natural number r, an algebra that is roughly of the size of W(gl_r) tensor the K-theory of S. The goal is to make this algebra act on the K-theory of the moduli space of certain rank r sheaves on S, and to use this point of view to provide a mathematical incarnation of the AGT correspondence between gauge theory and conformal field theory.

Wednesday, June 14, 2017 01:45pm - 03:45pm

Big Seminar room Ground floor / Office Bldg West (I21.EG.101)