Grassmannian of two term complexes and instantons on the blow ups

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The semi-orthogonal decomposition of the cohomological theory of Grassmannian of two-term complexes is studied by a series paper of Jiang. In this talk, we will reinterpret it as a representation of the Clifford algebra.

As an application, we will explain a relation between the basic representation of the affine Lie algebra and the moduli space of the instanton spaces on the blow up of a point in a surface. It verifies the predictions of Li-Qin and Feigin-Gukov. Based on joint work with Qingyuan Jiang and Wei-ping Li.

Room 2303 (near Lift 17 & 18)   Tue, Feb 18, 2025 10:00 AM