SEMI-LINEAR OPERATORS ON Q-DE RHAM COHOMOLOGY

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Time：Friday, May 23th, 2025, 13:15-14:15

Venue：Room 102, Shanghai Center for Mathematical Sciences

Abstract：

q-de Rham cohomology is a deformation of de Rham cohomology introduced by Peter Scholze. The local version is a special case of Bhatt-Scholze's prismatic cohomology, but its global version is still mysterious. It is conjectured that there are some semi-linear operators defined on them, I will report on progress towards these operators.