

On modular representations of affine Lie algebras

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While the highest weight representation theory of affine Lie algebras in characteristic zero is by now fairly well understood, far less has been known in characteristic $p > 0$. We will report on some basic results (partly in progress) in this direction, e.g. the Harish-Chandra center of the enveloping algebra at all levels, the linkage principle, an analogue of the Kac-Kazhdan conjecture, and a local de Rham geometric Langlands correspondence. This is based on joint work with Ivan Losev.

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