

## Geometry of Siegel eigenvarieties at Saito–Kurokawa points

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I will report on joint work with T. Berger studying the geometry of Siegel eigenvarieties. Under certain assumptions we show that they are smooth at points corresponding to Saito-Kurokawa lifts when the tame level is paramodular, but singular when it is  $\Gamma_0(N)$ . Moreover, we give an application to the Bloch-Kato conjecture. Our technique uses pseudorepresentations of p-adic families of cuspidal Siegel eigenforms and analytic continuation of crystalline periods.

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