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Cristian Lenart, Kirill Zainoulline and Changlong Zhong* (czhong@albany.edu), albany, NY 12222. *Hyperbolic formal group law and parabolic Kazhdan-Lusztig basis.*

In this talk I will introduce the Hecke-type algebra associated to hyperbolic formal group law. The dual of this algebra gives the T -equivariant elliptic cohomology of flag varieties $h_T(G/B)$. Using this algebra, we give a new definition of Deodhar's parabolic Kazhdan-Lusztig basis inside $h_T(G/B)$, called the KL-Schubert class. It is conjectured by Lenart and Zainoulline that if the Schubert variety corresponding to w is smooth, then the KL-Schubert class coincides with the Schubert class. In this talk I will talk about some evidence of this conjecture. (Received July 06, 2016)