Structure of some p-adic period domains

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Abstract:

Rapoport and Zink introduce the p-adic period domain (also called the admissible locus) inside the rigid analytic p-adic flag varieties. Over the admissible locus, there exists a universal crystalline Qp-local system which interpolates a family of crystalline representations. The weakly admissible locus is an approximation of the admissible locus in the sense that these two spaces have the same classical points. In this talk, we will talk about the relation between admissible locus, weakly admissible locus and the Newton stratification in the flag variety. This talk is based on a joint work with Laurent Fargues and Xu Shen and also a joint work with Jilong Tong.