

# On the compactification of Deligne–Lusztig varieties

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In this talk, I will explain a result on the  $l$ -adic cohomology of the compactification of Coxeter Deligne–Lusztig variety for  $GL_n$ . The question arises in the study of rigid analytic geometry of  $p$ -adic Drinfeld symmetric space. A similar result is expected for Coxeter Deligne–Lusztig varieties for general reductive groups, with an interest in the study of some general Rapoport–Zink spaces.