

BOSTON UNIVERSITY NUMBER THEORY SEMINAR

Vanishing theorems for completed cohomology

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Monday, October 15 at 4:15 pm
111 Cummington Mall, MCS B21
Tea and cookies in MCS 144 at 4:00 pm

Abstract: Completed cohomology, as defined by Calegari and Emerton, is a natural candidate for general spaces of p -adic automorphic forms. I'll discuss some new vanishing theorems for completed cohomology, building on previous work of Scholze and Shen. The proofs involve a fun combination of perfectoid methods and more classical Shimura variety techniques, which I'll try to explain. This is joint work in progress with Christian Johansson.