

q-Higgs Modules and the Nygaard Filtration

jeudi 17 octobre 2024 10:30 (1 heure)

Similarly to the theory of crystalline cohomology, prismatic crystals and their cohomology over a bounded prism (R, I) are described in terms of q-Higgs modules when (R, I) is defined over the q-crystalline prism, or more generally when R/I contains a primitive pth root of unity. We see how this allows us to understand the isogeny property of Frobenius, the de Rham specialization, and the Nygaard filtration for the prismatic cohomology of a prismatic F-crystal.

Orateur: TSUJI, Takeshi (The University of Tokyo)