

Geometry Seminar

Tuesday, 16 July 2024

10:15 h, room 228 (ExWi)

Prof. Ho Hai Phung, Vietnamese Academy of Science

Prolongation of regular-singular connections on punctured affine line over a Henselian ring

Abstract : We generalize Deligne's equivalence between the categories of regular-singular connections on the formal punctured disk and on the punctured affine line to the case where the base is a strictly Henselian discrete valuation ring of equal characteristic 0. We also provide a weaker result when the base is higher dimensional.

This is a joint work with João Pedro dos Santos, Pham Thanh Tâm, and Đào Văn Thịnh