

**Speaker:** Laurent Berger

**Title:** Sen theory and locally analytic vectors

**Abstract:** I will explain how the theory of locally analytic vectors allows us to generalize Sen theory to extensions whose Galois group is a Lie group of any dimension (joint work with Pierre Colmez). In the last part of my talk, I will explain how the same ideas allow us to prove the overconvergence of certain  $(\varphi, \Gamma)$ -modules.