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TBA

Jeudi 13 Fevrier 2025, 11 :00
IHES, Amphithéâtre Léon Motchane(Séminaire de Géométrie Arithmétique)
Domaines : math

Titre : *On the (phi, Gamma)-modules Corresponding to Crystalline Representations, Semi-stable Representations and de Rham Representations*

Orateur : **Takumi Watanabe (Université de Tokyo & IHES)**

Résumé : *From the 1980s to the 1990s, Jean-Marc Fontaine introduced the theory of (phi, Gamma)-modules to study p-adic Galois representations. They are simpler than p-adic Galois representations, but he showed an equivalence between them. Among p-adic Galois representations, some classes are particularly important in number theory. Main examples are crystalline representations, semi-stable representations and de Rham representations. In this talk, I will explain how we can determine the (phi, Gamma)-modules corresponding to these representations. These results can be seen, in a sense, as generalizations of Wach modules.*