SEMPARIS – Séminaires en région parisienne

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TBA

Vendredi 23 Fevrier 2018, 14 :30
IHES, Amphithéâtre Léon Motchane
Domaines : hep-th

Titre : *Gromov-Hausdorff limits of curves with flat metrics and non-Archimedean geometry*

Orateur : **Dmitry Sustretov (Max Planck Inst. for Mathematics & IHES)**

Résumé : *Two versions of the SYZ conjecture proposed by Kontsevich and Soibelman give a differential-geometric and a non-Archimedean recipes to find the base of the SYZ fibration associated to a family of Calabi-Yau manifolds with maximal unipotent monodromy. In the first one this space is the Gromov-Hausdorff limit of associated geodesic metric spaces, and in the second one it is a subset of the Berkovich analytification of the associated variety over the field of germs of meromorphic functions over a punctured disc. In this talk I will discuss a toy version of a comparison between the two pictures for maximal unipotent degenerations of complex curves with flat metrics with conical singularities, and speculate how the techniques used can be extended to higher dimensions.*