
Géométrie et dynamique dans les espaces de modules

(Giovanni Forni, Carlos Matheus et Anton Zorich)

Un **mercredi** par mois de **14h à 15h** à l'**Institut Henri Poincaré**.

Séminaire au mois d'Octobre:

- **12/10/2022 - Yilin Wang (IHES)**

Titre: *From SLE to Weil-Petersson Universal Teichmuller space*

Résumé: The universality of Brownian motion underlies the appearance of SLE in conformally invariant 2D systems. The action functional of Brownian motion, namely the Dirichlet energy, corresponds to the Loewner energy for a Jordan curve. This energy, intuitively speaking, measures the roundness of a Jordan curve and the density of SLE around the curve. Furthermore, this energy is shown by Takhtajan and Teo to be a Kahler potential on the space of Weil-Petersson quasicircles, identified with the Weil-Petersson universal Teichmuller space. I will overview different geometric and probabilistic descriptions of the Loewner energy and Weil-Petersson Teichmuller space and discuss further development by exploring those links.

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