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# Géométrie et dynamique dans les espaces de modules

(Carlos Matheus, Bram Petri et Anton Zorich)

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

Séminaire au mois de Octobre:

- **08/10/2025 - Kai Fu** (Institut de Mathématiques de Bordeaux)

**Titre:** *Siegel–Veech Measures of Convex Flat Cone Spheres*

**Résumé:** A classical theorem of Siegel gives the average number of lattice points in bounded subsets of  $\mathbb{R}^n$ . Motivated by this result, Veech introduced an analogue for translation surfaces, now known as the Siegel–Veech formula. For flat surfaces with irrational cone angles, however, no such formula is available. A convex flat cone sphere is a Riemann sphere equipped with a flat metric with conical singularities, all with cone angles less than  $2\pi$ . In this talk, I will discuss recent work extending Siegel–Veech theory to this setting and outline the main ideas of the proof.

**Salle Olga Ladyjenskaïa (ex-salle 01)**

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