Géométrie et dynamique dans les espaces de modules

(Carlos Matheus, Bram Petri et Anton Zorich)

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

Séminaire au mois de Juin:

- **18/06/2025 - Richard Schwartz** (Brown University)

  Titre: *The optimal paper Moebius band*

  Résumé: If the number L is large you can take a $1 \times L$ rectangular strip, smoothly twist it in space, and glue the ends together so as to make an embedded paper Moebius band. If L is too small this is impossible. In this talk I will explain why $L > \sqrt{3}$ is a necessary and sufficient condition for the existence of a smoothly embedded paper Moebius band. This is the solution to the 1977 conjecture of B. Halpern and C. Weaver. I will also explain why a sequence of L-minimizing examples must converge to an equilateral triangle.

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