Du
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2019

11h30
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12h30

SÉMINAIRE BOURBAKI

András STIPSICZ — Manolescu's work on the triangulation conjecture

Institut Henri Poincaré
Amphithéâtre Hermite
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INSCRIPTION

The triangulation conjecture (asking whether a manifold is necessarily a simplicial complex) has been recently resolved in the negative by Ciprian Manolescu. His proof is based on work of Galweski–Stern and Matumoto, reducing the problem to three- and four-dimensional topology. Manolescu solved the low- dimensional problem by developing a new version of Floer homology, resting on the Seiberg–Witten equa- tions and a symmetry of these equations. The resulting Pin(2)-equivariant theory turned out to be a rich source of invariants, and similar ideas have been applied in Heegaard Floer homology. In the lecture we intend to put the problems into context, indicate the solution of Manolescu and draw attention to further developments based on these ideas.

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HORAIRES

L'institut :
• lundi au vendredi de 8h30 à 18h,
• fermé les jours fériés.

Le musée - Maison Poincaré :
• lundi, mardi, jeudi et vendredi
de 9h30 à 17h30,
• samedi de 10h à 18h,
• fermé le mercredi et le dimanche.

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