



Du
15
JUN.
2019

11h30
-
12h30

SÉMINAIRE BOURBAKI

András STIPSICZ — Manolescu's work on the triangulation conjecture

Institut Henri Poincaré
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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 equations and a symmetry of these equations. The resulting $\text{Pin}(2)$ -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.

URL of the page: <https://www.ihp.fr/fr/agenda/andras-stipsicz-manolescus-work-triangulation-conjecture>



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L'institut :

- lundi au vendredi de 8h30 à 18h,
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Le musée - Maison Poincaré :

- lundi, mardi, jeudi et vendredi de 9h30 à 17h30,
- samedi de 10h à 18h,
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