



Du
19
SEPT.
2022

14h00
-
15h00

SÉMINAIRE D'ALGÈBRE

Liran Shaul : The finitistic dimension conjecture via DG-rings

Zoom

INSCRIPTION

The finitistic dimension of a ring A is defined to be the supremum of projective dimensions among all A -modules of finite projective dimension. It is an open problem whether this quantity is finite for finite dimensional algebras over a field and for artin algebras.

In this talk, I will explain a new approach for studying the finiteness of the finitistic dimension by embedding the ring A inside a nicely behaved differential graded algebra, and using relation between this DG-algebra and A to deduce results about the finitistic dimension. As an application of these methods, I will explain how to generalize a recent sufficient condition of Rickard, for $\text{FPD}(A) < \infty$ in terms of generation of $D(A)$ from finite dimensional algebras over a field to all left perfect rings which admit a dualizing complex.

URL of the page: <https://www.ihp.fr/fr/agenda/liran-shaul-finitistic-dimension-conjecture-dg-rings>



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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.