



Du
10
FÉV.
2023

16h30
-
18h00

ÉQUATIONS DIFFÉRENTIELLES MOTIVIQUES ET AU-DELÀ

Two applications of Grothendieck's algebraicity conjecture

L'IHP
201
11, rue Pierre et Marie Curie, Paris 75005

INSCRIPTION

Abstract: In 1984 D.Chudnovsky and G.Chudnovsky proved Grothendieck's algebraicity conjecture in the abelian case: if the derivative of logarithm of a series with integer coefficients is algebraic, then the series itself is algebraic. One of applications is in the hypergeometric setting, by É.Delaygue and T.Rivoal.

Another one (by me) is in the free probability theory of large random unitary matrices, based on theory of formal grammars and algebraic noncommutative series by N.Chomsky and M.Schützenberger. There are interesting parallels between these two cases.

URL of the page: <https://www.ihp.fr/fr/agenda/two-applications-grothendiecks-algebraicity-conjecture>



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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.