



**università
degli studi di bari
ALDO MORO**

**dipartimento
di matematica**

il direttore

Seminari di Matematica

Nell'ambito delle attività seminariali del Dipartimento di Matematica,
su proposta del Prof. Lucio Centrone,

il Prof. Alexei Kanel-Belov
(Bar Ilan University, Ramat Gan (Israel))

terrà presso il Dipartimento di Matematica
dell'Università degli Studi di Bari Aldo Moro,
la seguente conferenza:

"Specht type problems and noncommutative algebraic geometry"

il giorno **11 ottobre 2022 alle ore 15.30**,
presso l'**aula IX** del Dipartimento di Matematica

ABSTRACT: The general Specht problem says "does a given set of identities of associative algebras stabilize? i.e., does any set of identities can be deduced from a finite subset? Specht kept in mind the case of the field of characteristic zero, and this problem was solved by A.R. Kemer in an affirmative way. In positive characteristics for the case of finite number of variables A. Belov Rowen Vishnu gave an affirmative answer and in general counterexamples were constructed. The general Specht problem is one of the central problems in polynomial identity theory. Its solution gave a technique related with some point of view on noncommutative algebraic geometry and representation theory to solve some other open questions, including new insights in representation theory (how semisimple components interact with each other via radical). The counterexamples in positive characteristics and Kemer's proof of finite basis property in characteristic zero connected with some deep properties of Grassman algebra and, by the way, give us a chance to build a supertheory in characteristic 2.

La S.V. è cordialmente invitata a partecipare.

Bari, 28.09.2022

F.to Prof.ssa Addolorata SALVATORE

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