# קולוקוויום

*ביום שלישי, 15 בנובמבר, 2022*

*בשעה 14:30 – 15:30*

*בMath -101*

ההרצאה

## in interpretable groups semisimple Definably Assaf with work (Joint fields closed p-adically Peterzil) Ya'acov and Hasson

תינתן על-ידי

University) (Hafia Halevi Yatir

תקציר: Identfiying and characterizing the groups and fields one can define in
various first order structures has had multiple applications within model theory
and in other branches of mathematics. We focus here on p-adically closed
fields. Let K be a p-adically closed field (for example, Q_p). We will discuss some recent
results regarding interpretable groups and interpretable fields in K:
(1 Let G be an interpretable group. If G is definably semisimple (i.e. G has
no definable infinite normal abelian subgroups) then there exists a finite
group. K-linear a to isomorphic definably is G/H that such H subgroup normal
(2 Let F be an interpretable field. Then F is definably isomorphic to a finite
extension of K.

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