

המחלקה למתמטיקה, בן-גוריון

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## לוגיקה, תורת הקבוצות וטופולוגיה

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ביום שלישי, 15 במרץ, 2016

בשעה 12:30 – 13:45

ב-101 Math

ההרצאה

### part - principle trichotomy restricted Zilber's On

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תינתן על-ידי

(BGU) Hasson Assaf

תקציר: Zilber's trichotomy conjecture, asserting that roughly, a modular field is strongly minimal over a closed algebraic curve, or is algebraically closed, or is a field of characteristic  $p > 0$  with a non-trivial  $p$ -adic valuation. This conjecture was first proposed by Zilber in 1988, and was refuted by Hrushovski in 1998. Nevertheless, the underlying idea of the conjecture remains influential, and has led to many important results in model theory. In this talk, I will discuss the history of the conjecture, and its various versions. I will also discuss the recent work of Peterzil and Eleftheriou, which shows that the conjecture holds for a large class of modular fields. Finally, I will discuss the connection between the conjecture and the theory of o-minimal structures.