

המחלקה למתמטיקה, בן-גוריון

גיאומטריה ותורת החבורות

ביום ראשון, 15 באפריל, 2018

בשעה 14:30 – 15:30

ב-101

ההרצאה

algebra Lie Goldman the of Center

תינתן על-ידי

(BGU) Kabiraj Arpan

תקציר: In 1980s Goldman introduced Lie algebra structure on the free vector space generated by the classes of oriented closed curves on a surface. This is known as Goldman's Lie bracket. In this talk we will discuss some basic properties of Goldman's Lie algebra and its relation to the theory of Teichmüller space. We will show how techniques from geometric group theory can be used to compute the center of Goldman's Lie algebra. We will also mention some open problems related to Goldman's bracket.