המחלקה למתמטיקה, בן-גוריון

## קולוקוויום

ביום שלישי, 24 באוקטובר, 2017

בשעה 14:30 – 14:30

101- Math

ההרצאה

## its and flows traversing of Holography problems scattering inverse the to applications

תינתן על-ידי

(MIT) Katz Gabriel

smooth on \$v\$ fields vector gradient-like non-vanishing the study We תקציר: traversing. fields such call We boundary. with \$X\$ manifolds compact

X\$ \$\d boundary the divide we \$v\$, field generic boundary a of help the With \$\d^-X(v)\$. and \$\d^+X(v)\$ manfiolds, compact complementary two into \$X\$ of distant a \d^-X(v)\$, \to \d^+X(v) \$C\_v: map causality the introduce we Then map. return Poincare the of relative

produced \$X\$, on foliation 1-dimensional oriented the denote F(v) \$\mathcal Let \$v\$-flow. traversing a by

generic boundary for that, claims Theorem, Holography the result, main Our allows is  $C_v$  map causality the of knowledge the v, fields vector traversing homeomorphism a to up F(v), \mathcal (X, pair the of reconstruction a for the sector traversing homeomorphism a to up F(v)).

a for words, other In X\$. \$\d boundary the on identity the is which X\$ \to X \$\Phi: a satisfying solutions, their of topology the that show we ODE's, of class massive since "holographic" results these call We rigid. is problem, value boundary given on flow the of dynamics un-parameterized the and \$X\$ (n+1)-dimensional the \$n\$-dimensional two between  $C_v$  correspondence single a by captured are it  $d^-X(v)$ , and  $d^+X(v)$  screens,

dynamics the to applications numerous has flows traversing of holography This the of applications some discuss will we permitting, Time flows. general of problems scattering inverse the and flows geodesic the to Theorem Holography boundary. with manfiolds Riemannian on