המחלקה למתמטיקה, בן-גוריון

## קולוקוויום

ביום שלישי, 7 במאי, 2019
בשעה 14:30 - 15:30
101-Math

ההרצאה

# dffiusion, recurrence, walks: random Stationary billiards examples, 

תינתן על-ידי<br>Rennes) of (University Conze Jean-Pierre

תקציר: systems dynamical are obstacles periodic with plane the in billiards The specfiic A behavior. their in features intricate but description simple a with "wind- so-called the is ,1912 in Ehrenfest Tatania and Paul by introduced example, with collides and plane the on moves point a to reduced ball a where model, tree"
optics. geometric of law usual the to according scatters rectangular parallel (recurrence), point starting its to close return ball the does are: questions Natural reached scatters of set the is what (dffiusion), it? from far goes ball the fast how ball? the by invariant infinite an with systems dynamical as modeled be can billiards These random stationary a as viewed be can particle the of position The measure. $\$ \mathrm{R}^{\wedge} 2 \$$, in values with variables random of sequence stationary a of sum walk,
are increments the billiard the For walks. random classical the to analogous random classical the for while collisions, two between vectors displacement the
variables. random independent are increments the walks invariant infinite with systems about facts general some after talk, the In stationary a of dffiusion) (or growth and recurrence of notions the measure, model. "wind-tree" the particular in examples, by illustrated be will walk random

