# המחלקה למתמטיקה, בן-גוריון 

## קולוקוויום

ביום שלישי, 8 בנובמבר, 2022
בשעה 14:30 - 15:30

ב101-Math

ההרצאה

# and probability measures: word and maps Word geometry 

תינתן על-ידי

## University) (Northwestern Glazer Itay

the (e.g. elements r of set a on F_r group free a in w word a Given תקציר word a associate can one G, group a and $\mathrm{w}=\mathrm{xyx}^{\wedge}(-1) \mathrm{y}^{\wedge}(-1)$ ), word commutator $\mathrm{w}(\mathrm{x} 1, \ldots, \mathrm{xr})=\mathrm{g}$ equation the whether ask to natural is it G , in g For $\mathrm{w}: \mathrm{G}^{\wedge} \mathrm{r}->\mathrm{G}$. map suitable a in set, solution this of "size" the estimate to and $\mathrm{G}^{\wedge} \mathrm{r}$, in solution a has a becomes this group, compact a generally more or finite, is G When sense. Haar- for $\mathrm{w}\left(\mathrm{x} \_1, \ldots, \mathrm{x} \_\mathrm{r}\right)$, of distribution the analyzing of problem probabilistic $\operatorname{SLn}(\mathrm{C})$, as such group, algebraic an is G When G. in $\mathrm{x}_{-} 1, \ldots, \mathrm{x}_{-} \mathrm{r}$ elements random been have problems Such w. of fibers the of geometry the study to natural is it finite as such settings various in decades, few last the in studied extensively algebraic simple groups, Lie compact groups, p -adic compact groups, simple Lie for studied been have problems Analogous groups. arithmetic and groups,
and results, these of some mention will I talk, this In well. as maps word algebra approaches. algebraic and probabilistic the between connections tight the explain Avni. Nir and Hendel Yotam with works joint on Based

