המחלקה למתמטיקה, בן-גוריון

lecture Special

undecidable is algebra Calkin the of automorphisms outer of Existence :**Title**
ZFC in

University Gurion Ben and Oregon of University ,*Phillips Christopher N.* :**Speaker**
Negev the of

of $L(H)$ algebra the of quotient the is Q algebra Calkin The **Abstract:**
the by H space Hilbert dimensional infinite separable a on operators bounded
is It operators). rank finite of ideal the of closure (the operators compact of ideal
few a takes It .1941 in Calkin by studied first C^*-algebra, simple explicit an
form the of is, that inner, is $L(H)$ of automorphism every that prove to lines
inner? Q of automorphisms all Are .$L(H)$ in u unitary some for $a \mapsto uau^{-1}$
the Assuming ZFC. in undecidable is this ,Q of description concrete the Despite
automorphisms inner) not is, (that outer are there (CH), Hypothesis Continuum
called also (OCA; Axiom Coloring Open the Assuming .(2007 Weaver, with (joint
.(2011 (Farah, inner are Q of automorphisms all Axiom), Todorcevic's
to intended are talks The results. both of proofs outline will we talks, these In
follow will We theory. set and algebras operator both in people to accessible be
uses which CH, under automorphisms outer of existence the of reproof Farah's
the of some uses and proof, original the than machinery -algebraC^* less much
OCA. under nonexistence of proof the as ingredients same
proved, been have which results later about something say briefly very will We
Calkin the of generalizations involving open, remain which problems as well as
algebras. Calkin l^p and -algebrasC^* of algebras multiplier outer as such algebra,
automorphisms reversing orientation of existence the whether open remains It
ZFC. with consistent is algebra Calkin original the of

2022 ,13:00—11:10 ,18 יולי :**Time**

(BGU) 28 Building ,104 Room :**Location**

https://www.math.bgu.ac.il/research/events/calkin-ncphillips :**Web**