

Department of Mathematics, BGU

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# Logic, Set Theory and Topology

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*On Tuesday, June ,21 2016*

*At 12:30 – 13:45*

*In Math 101-*

Inbar Marom (BGU)

will talk about

**w<sub>2</sub>-Suslin Tree (The talk will be given in Hebrew)**

Abstract: An  $w_2$ -Suslin tree is a tree of height  $\omega_2$  which has no branches nor anti-chains of size  $\omega_2$ . I will show that if we assume (less than) GCH and Square principle on  $\omega_1$  we can build an  $w_2$ -Suslin Tree.