

Topology Seminar

Jay Shah

of MIT will be speaking on

Parametrized higher category theory

on May 1 at 4:30 in
MIT Room 2-131

Parametrized or indexed ∞ -category theory studies ∞ -categories fibered over a given base ∞ -category. This theory can be harnessed for the purposes of equivariant homotopy theory when one specializes to the case where the base is the orbit category of a finite group. In this talk, we present a theory of parametrized homotopy limits and colimits that recovers and extends the Dotto-Moi theory of G -colimits. We apply this theory to prove that the G - ∞ -category of G -spaces is freely generated under G -colimits by the contractible G -space, thereby affirming a conjecture of Mike Hill.

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