



Speaker: Jay Shah
University of Notre Dame

Tuesday, September 12, 2017

2:30 PM

258 Hurley Hall

Title: Parametrized higher category theory

Abstract:

Talk I: 2:30-3:30 Talk II: 4:00-5:00

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.