



Speaker: Justin D. Thomas
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Thursday, June 30, 2011
3:00 PM
258 Hurley Hall

Title: A definition of perturbative quantum field theory

Abstract:

Using renormalization group flow, we will define a notion of quantum field theory in which physics is described by a collection of effective actions for each length scale. We will discuss Costello's theorem which states that every renormalization scheme gives a canonical way to lift a local action functional to a perturbative quantum field theory.