Contribution ID: **115** Type: **parallel talk**

SCET improved SUSY search

Tuesday 8 May 2012 18:00 (15 minutes)

Abstract:

Supersymmetry has been one of the most popular candidates for physics beyond standard model (SM) for a long time. The fact that we haven't yet discover super particles in nowadays LHC data, pushes the SUSY production nearer and nearer to the LHC machine threshold. In the threshold limit, how well we understand the SM background is crucial for SUSY or other physics beyond SM search. In this talk, we will use the simplest case by considering photon plus two jets to address the problem and we will talk about how we can use the soft collinear effective theory to sum up potentially large logs related to threshold limit to improve our understanding of the SM background.

Author: LIU, xiaohui (ANL and NORTHWESTERN UNIV.)

Co-authors: Prof. PETRIELLO, Frank (ANL and NORTHWESTERN UNIV.); Dr MANTRY, Sonny (ANL and NORTHWESTERN UNIV.)

Presenter: LIU, xiaohui (ANL and NORTHWESTERN UNIV.)

Session Classification: SUSY VI