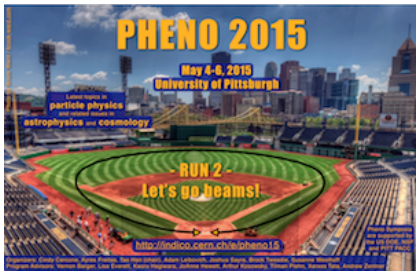

Contribution ID: **133** Type: **parallel talk**

Searching for new collider resonances through topological models

Tuesday, 5 May 2015 17:00 (15 minutes)

We propose a systematic way of searching for new physics at colliders that compliments existing strategies. Starting from a given final state topology we survey the possible resonance structures that lead to such a final state. As a case study we examine the *lljj* final state and propose analysis techniques and give sensitivity estimates for the $\sqrt{s} = 14\ TeV$ and $\mathcal{L} = 300\ fb^{-1}$ LHC run.

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Session Classification: Tools