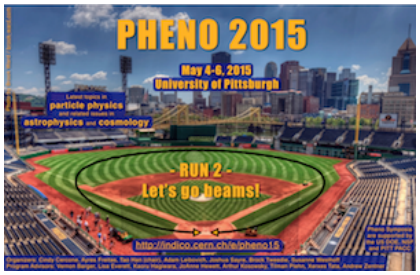

Contribution ID: **155** Type: **parallel talk**

Chromo-Rayleigh Interactions of Dark Matter

Monday 4 May 2015 14:00 (15 minutes)

We study the collider constraints on chromo-Rayleigh interactions of dark matter. Here we present the results of an effective operator analysis and compare collider and direction detection constraints. For dark matter masses of order 100 GeV the constraints from monojet searches are relatively weak, questioning the applicability of the effective operator description. Thus, we also present several simplified UV completions and find that one such model gives rise to the novel signature of pair-produced dijet resonances with large missing transverse energy.

Primary authors: OSBORNE, James (University of Wisconsin - Madison); BAI, Yang (University of Wisconsin, Madison)

Presenter: OSBORNE, James (University of Wisconsin - Madison)

Session Classification: Dark Matter I