

Ideas for a hadron jet gun

* decays generated with flat kinematic distributions in relevant variables
 * one, isolated DV per "event": Analyse independent of the rest of the event

LLP type	LLP mass	Decay Products	Kinematic variables	QUESTIONS
Scalar S (decays like SM Higgs h)	① for $h \rightarrow 2\mu\mu$: m_h from $\sim 5, 10$ GeV to 60 GeV ② for \tilde{I} (heavy scalar): continue mass range $\rightarrow ?$	① $\bar{u}u, d\bar{d}$ $c\bar{c}, s\bar{s}$ $b\bar{b}$ ② add all kinematically accessible states: $gg, Zh, hh, W^+W^-, t\bar{t}$	Characterise decays as displaced objects: DV $P_T, R, \Delta\eta$ correlated perhaps can deconvolve	① how fine mass "net" to make? ② are decays to different final states important, or would only be second-order effects? ③ What range non-SM possible decays (eg. heavy "Higgs") are important (most important)? ④ are we missing anything??
pseudoscalar a (decays like ZHDM A^0)				
χ_D / \tilde{Z}_D (decays like Z)				

* can provide other variable distributions, top... (eg. nTracks)