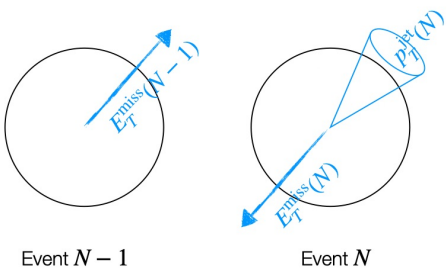
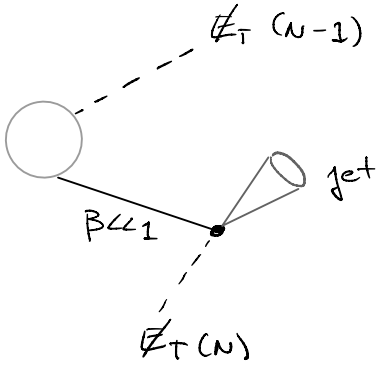
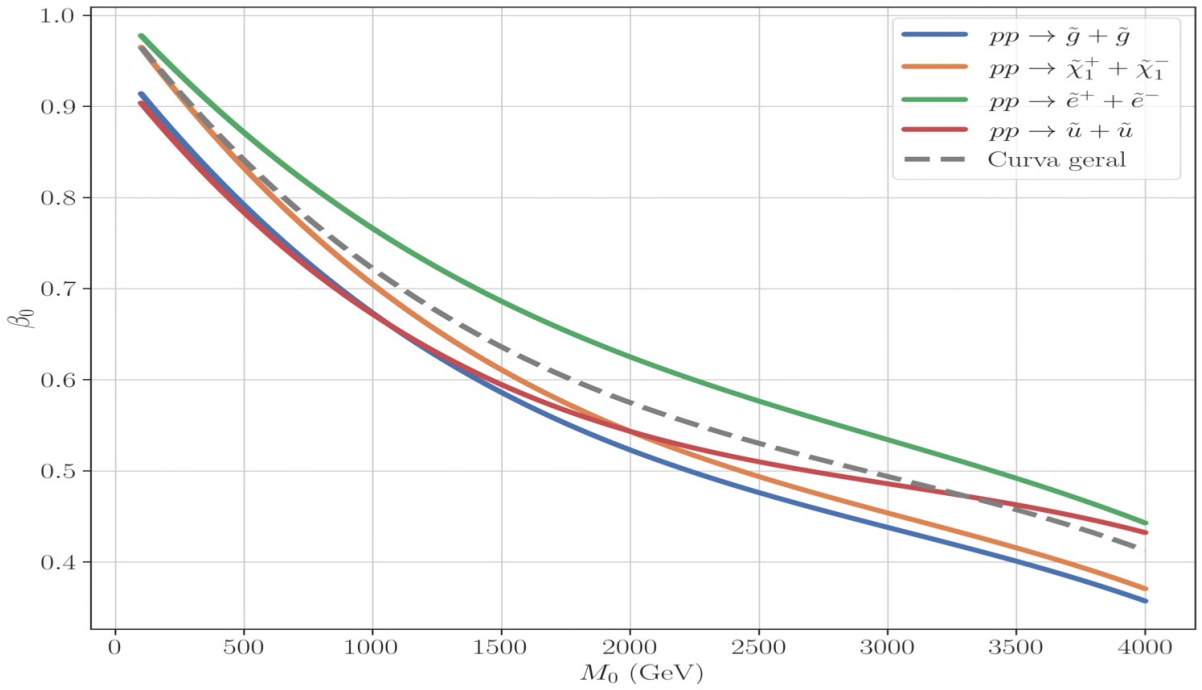
All three quantities are about the same magnitude:

$$|E_T^{\text{miss}}(N-1)| \simeq |E_T^{\text{miss}}(N)| \simeq |p_T^{\text{jet}}(N)|$$



Event $N-1$ Event N

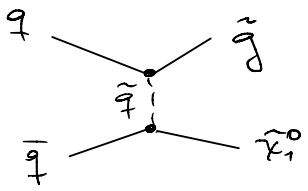




$$l = \beta_0 c \Delta t, \quad \Delta t = 25\,ns \quad c = 3\times10^8\,s$$

$$l = 7.5\,\beta_0\,m$$

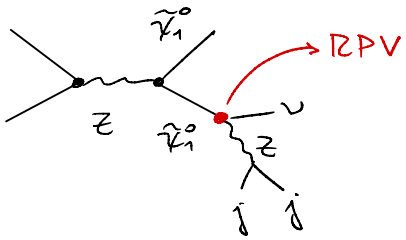
— Model A



$\tilde{g} \rightarrow q q \tilde{\chi}_1^0$ → Constraints from direct gluino production

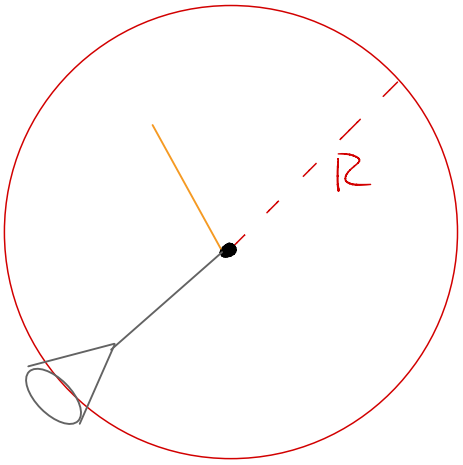
→ too small xsecs? ($\sigma \propto \frac{1}{\tau_{\tilde{g}}}$)

— Model B



– $M_\chi \sim 3$ TeV → tiny σ ?

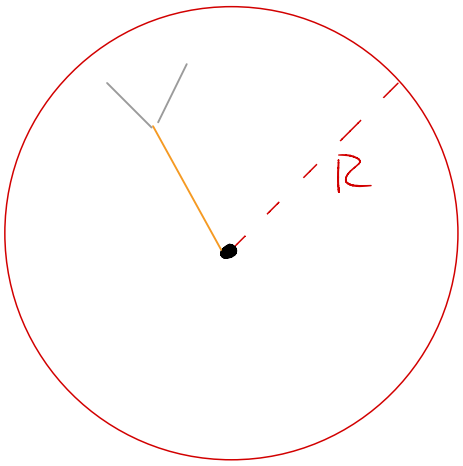
— Charged LLP



N-1

Track + MET

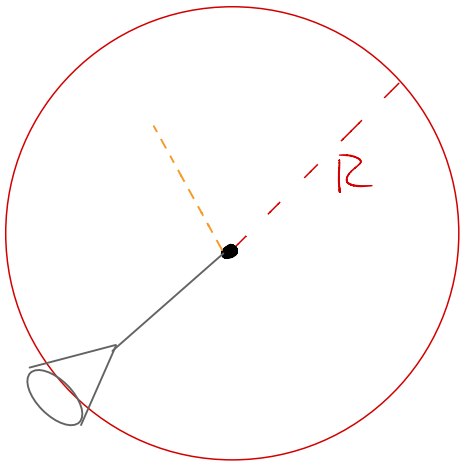
HSCP, DT



N

Jets + ...

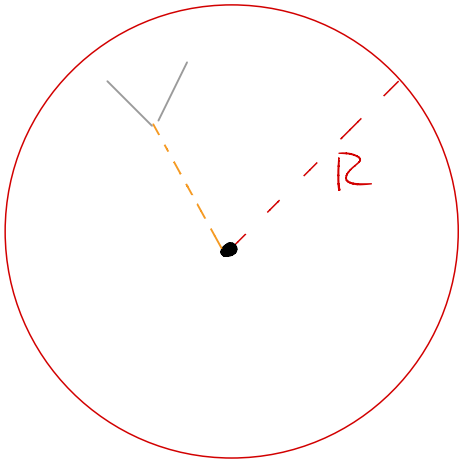
— Neutral LLP



N-1

MET

Mono-X



N

Jets + ...