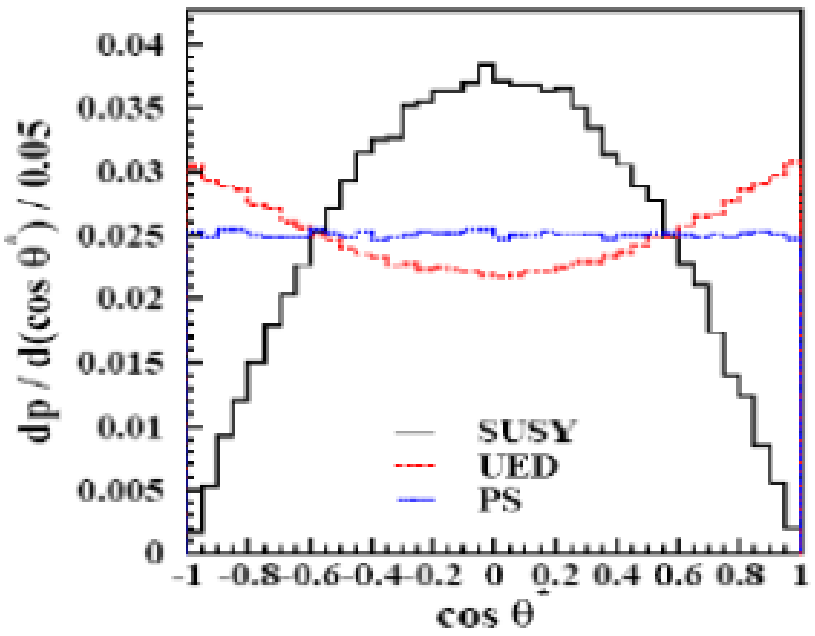
Look at slepton production angle in c.o.m.

- θ* = angle between incoming quark and slepton



$$\left(\frac{d\sigma}{d\cos\theta^*}\right)_{\text{SUSY = LHC point 5}} \propto 1-\cos^2\theta^*$$

$$\left(\frac{d\sigma}{d\cos\theta^*}\right)_{PS} \propto \text{constant}$$

$$\left(\frac{d\sigma}{d\cos\theta^*}\right)_{UED} \propto 1+\left(\frac{E_{\ell_1}^2-M_{\ell_1}^2}{E_{\ell_1}^2+M_{\ell_1}^2}\right)\cos^2\theta^*$$

Sensitive to spin, but can we measure θ*?

Define: $\cos\theta^*_{ll} \equiv \cos\left(2\tan^{-1}\exp(\Delta\eta_{\ell^+\ell^-}/2)\right) = \tanh(\Delta\eta_{\ell^+\ell^-}/2)$

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