

GENERATORS

FOR SUSY

AVAILABLE TOOLS: ISAJET, SPYTHIA, SUSYGEN,
+ PROCESS SPECIFIC

- TOOLS SUFFICIENT FOR TDR.

IN THE LONG RUN ↘

	<u>ISAJET</u>	<u>SPYTHIA</u>	<u>SUSYGEN</u>
1) BEAMSTRAHLUNG + BEAM POL	Y	Y	✓
2) PHASES	COMING	COMING	✓
3) SPIN CORRELATIONS	?	?	✓
4) HIGH LOMB COMPLIANT	✓	?	~?

DIFFERENCES

5) GOOD T TREATMENT + POLARISATION (TAUOLA)			
6) 1-ORDER CORRECTIONS	NO	NO	NO
7) ALTERNATIVE SCENARII $\Delta m_{\tilde{\chi}_1^0 \tilde{\chi}_2^0} \rightarrow 0$, \tilde{g}_{LSP}^{\sim} INVISIBLE, AMSB	SOME	SOME	SOME

8) GMSB	Y	✓	✓
9) R_p	*	*	*
10) $\tilde{\tau}^-$ DECAYS (3-4b decays, \tilde{g}_{LSP}^{\sim})	NO	NO	~
11) RGE RUNNING	✓	✓	✓

DIFFERENCES

- BACKGROUNDS? G JETNOUS / MATCHING OF ME AND
PARTON SHOWRING / $\gamma\gamma$

- OTHER GENERATORS? HERWIG, PANDORA