

## Introduction

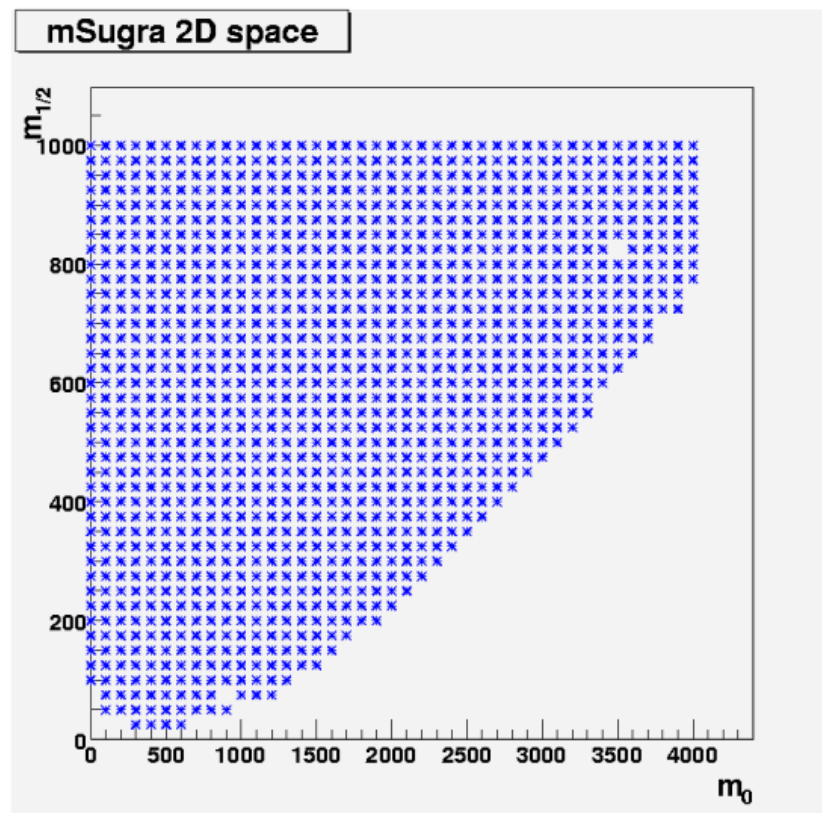
The aim is to simulate SUSY signals for different mSugra parameter points.

## mSugra-Grid

The mSugra parameters were chosen to be:

$m_0 = 0 \dots 4000$  (100)  
 $m_{1/2} = 0 \dots 1000$  (25)  
 $A_0 = 0$   
 $\tan\beta = 10$   
 $\text{sign}\mu = 1$

For generating the SUSY spectra, the tool ISAJET version 7.74 was used and the top mass was set to  $m_{\text{top}} = 172.5$  GeV. Certain points were not considered because of problems producing the spectrum, see fig. 1. This leaves 1201 mSugra points to generate, simulate etc.



\* Fig. 1

## AODs

Using Herwig/Jimmy 10k events for each of the 1201 mSugra points were generated. The AtlFast AODs are available from the computer grid. The datasetnames are of the following pattern:

user.TillFelixEifert1589.ganga.mSugra\_Grid\_v1.0\_110050\_M0\_M12

where  $M_0 = 0 \dots 4000$  and  $M_{12} = 0 \dots 1000$ . The number 110050 indicates that Athena version 11.0.5 was used.

Example: Download dataset for  $m_0 = 100$ ,  $m_{12} = 100$ :

[source DQ2 stuff ..]

dq2\_get -rcv user.TillFelixEifert1589.ganga.mSugra\_Grid\_v1.0\_110050\_100\_100

## SUSYView ntuples

work in progress ...

-- TillEifert - 20 Nov 2006

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