MY THESIS PLANS

Supervisor: Heidi Sandaker

- ▶ Study dark matter exclusion possibilities within a SUSY framework.

- ▶ Include updated limits from ATLAS

- ▶ As well as expected exclusion reach of CTA

What I have done so far

- ▶ I have started familiarizing myself with DarkSusy and ISAJET
- ▶ Adapted the sample program and some auxilliaries to run over *slha*-files from ISAJET
- ▶ I am currently exploring slices at different *tan*(β) $(10, 30, 45)$ from the initial plots, seeing if they resemble the ones that I see in the literature.
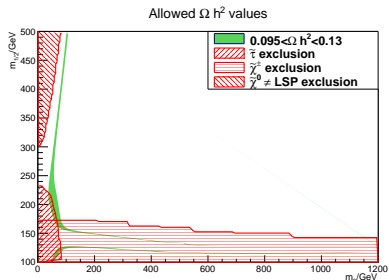

Figure: A slice of MSUGRA @ $A_0 = 0, tan(\beta) = 3, \mu > 0$
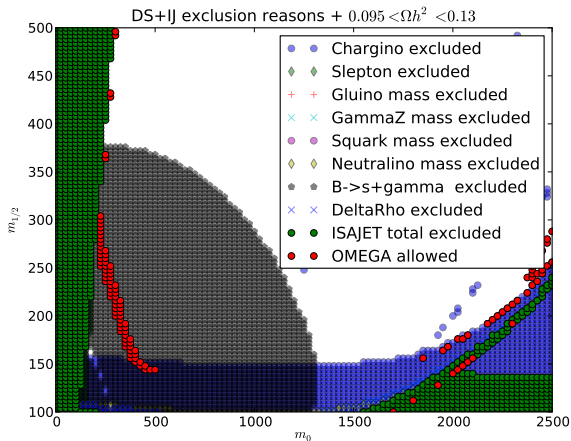
More figures- $tan(\beta) = 45, m_t = 127.7$

Figure: Rough plot; $tan(\beta) = 45, A_0 = 0, \mu > 0, m_t = 172.7$