Collection of problems and questions to address

How shall we organize our work?

Reference models?

- SM+Low scale N, triplet, Higgses, DM etc
- SUSY+ Seesaw

  – Singlet, triplet, mixed seesaw

  – top down, bottom up

  – different SUSY breaking scenarios, minimal, non-minimal

  – R-parity violation

- GUTs (RGEs above M_{GUT})
- Split SUSY
- Extra dimensions
- Littlest Higgs model
- What else?

How to address flavour in those models?

- General phenomenological parametrizations of Yukawas (bottom up)

- GUT constraints on Yukawa structure: SU(5), SO(10)

- Flavour symmetries: abelian, non-abelian, discrete

- Textures, zeros etc?

- ?????????

Obervables and correlations between them

- Observables at colliders (tau ->3 mu, LFV in slepton decays, non-universality is slepton masses?)

- Low energy LFV observables, mu-tau conversion, EDMs , T-odd observables

- Neutrino physics (seesaw I, II, III, ?)

- Cosmology: DM, leptogenesis etc

- Work out correlations between ALL those observables (including WG1, WG2 topics). Suggestions??

Technical and computational issues

- Do we need reference points for LFV in SUSY models?????

- Consistency of computational accuracy in SUSY LFV, leptogenesis, DM, EDMs, g-2, etc.

- Other issues??????

People

- The aim is to distribute topics to people interested to contribute