

# BSM Tools – Session 1

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Discussions so far concentrated on:

- Extending the SUSY Les Houches Accord
- Tools for Extra Dimensions
- Tools for NMSSM and CPV-SUSY
- + some bug-eyed BSM ...

# Projects - 1

- **Extending the SLHA** [Allanach, Porod, Moortgat, Penaranda, Desch, Wienemann, Skands, Schumacher, Lykken, Godbole, Kraml, Choudhury, Guchait, Boudjema, ...]
  - CPV, RPV, Flavour Violation, NMSSM
  - Framework for Theory Errors, Cross sections
  - Validating Tools
- **Tools for Extra Dimensions** [Ferrag, Kraml, de Roeck, Azuelos, Skands, Miakov?]
  - Collecting a repository, review available tools
  - Validating, esp private and semi-public tools
  - Towards standardization & benchmarks?

# Projects - 2

- **K-factors / Universality**

Huston, Mrenna, more?

- To what extent are higher-order corrections universal?

- **Event Generators for NMSSM**

Hugonie, Skands, Moretti, Kraml, Zerwas

- Very important to investigate more & soon, need tools. NMHDecay + event generators ...

- **Event Generators for CPV-SUSY**

Mrenna, Kraml, Schumacher, Richardson?