LLP Simulation Breakout Session

Action Items

• White paper simplified models featuring interacting LLPs (e.g. rhadrons) need to have their interaction model defining/documenting
  – Particle mass spectrum
  – Particle fragmentation function
  – Interaction model (e.g. Regge/cloud?)
  – Other relevant parameters of the model

• As a minimum, should aim to clearly compare and contrast what model + parameter values are currently being used by current analyses in these areas, highlighting any differences
  – Please step forward if you are familiar with these details in your collaboration's setup

• Call for new/improved ideas for simulating the deceleration of interacting particles
  – Currently using a simple stopping threshold: Beta < A^{-2/3}
  – Most important customers are probably the stopped particle searches

• Call for studies that can help (quantitatively) establish regime where fast simulation is valid

• More detailed minutes posted on agenda