Matrix Elements (ME) Hard Subprocesses.

Resonance decays.

Parton Showers (PS)

Initial and final state.

Non Main interactions

Multi-parton

interactions.

Beam remnants, with colour connections.

Underlying Event.

Detector Simulation

Using 4-vectors of truth level.

Ordinary decays

Truth level final events.

Hadronisation

Partons to final state particles.