I. Physics

    A. Jet multiplicity in event

    B. SM vs. MSSM generation

    C. Cross section (allow to float) and mass (several points)

II. Generators

    A. Pythia

        1. LO generator

        2. Relevant Feynman diagrams all present?

        3. Showering and hadronization of quarks and gluons

    B. Sherpa

        1. NLO generator

        2. Ambiguity of the associated b

    C. MadGraph

        1. NLO generator

        2. parton matching to Pythia for showering and hadronization

III. Simulation

IV. Digitization

V. Reconstruction

VI. Background Samples