- I will give a lecture for about 1 hour to explain about event generation, analysis, and many other various aspects...then next three hours will be for hands on session.

- I plan to pick up one generator like PYTHIA6/8 and then explain various things.

- Then use MadGraph to explain how one can generate events externally. and what are the related issues.

- If requires, then we can teach also TOY detector simulation, like Delphes.

Software : PYTHIA6, PYTHIA8.
MadGraph
Root
LHAPDF

Prerequisite:
A good Knowledge in the Standard Model of Particle Physics, Basics of QCD, Relativistic Kinematics.
Assuming that students are familiar with either Fortran/C++.. I see there is also a lecture on MC simulation.