

Outline of “Event Generator” Sessions

- Event Generators covered: **PYTHIA, PHOJET, HIJING, and AMPT**
- Batch 1 – **November 13, 14, 15** (Lecturers – Lokesh Kumar & Ajay Dash)
- Batch 2 – **November 21, 22, 23** (Lecturers – Chitrasen Jena & Ajay Dash)

Day 1:

- General Introduction to Event Generators: 30 min.
- **PYTHIA** -- Introduction (15 min.)
-- Hands-on Session: Installation, Event Generation (1 hr.)
- **Break:** 30 min.
- **PHOJET** -- Introduction (15 min.)
-- Hands-on Session: Installation, Event Generation (1 hr.)

Day 2:

- **HIJING** -- Introduction (15 min.)
-- Hands-on Session: Installation, Event Generation (1 hr. 15 min.)
- **Break:** 30 min.
- **AMPT** -- Introduction (15 min.)
-- Hands-on Session: Installation, Event Generation (1 hr. 15 min.)

Day 3:

- Copying the high statistics data generated previously to local computers
- Reading the output files of all the event generators
- Plot basic kinematic variables
- Compare results among different event generators

Prerequisites:

- ✓ Basics of QCD
- ✓ Relativistic Kinematics
- ✓ Programming in C++
- ✓ ROOT