

Monday, March 8	Tuesday, March 9	Wednesday, March 10	Thursday, March 11	Friday, March 12
Travel, registration 9:00 - 12:30	Lecture: SM EW processes at LHC / ILC 8:30 – 10:15 [measuring leptons, detectors, principles] Tutorial: The Z--> ll sample 10:30 – 12:30 [lepton spectra, invariant mass, resolution, tag+probe, bias, calibration, detector versus MC level, corrections, selection, Z asymmetry]	Lecture: Cross sections, factorisation, PDFs 8:30 – 10:15 [+ overview of DIS and results, lumi determination at LHC] Tutorial: The W--> lnu + jet sample 10:30 – 12:30 [Bonn-Versuch, transverse mass, boost, template method, PDF error, trigger efficiency, selection]	Lecture: Top physics, b tagging and tracking 8:30 – 10:15 [] Tutorial: Top and tracking / vertexing 10:30 – 12:30 [top mass, further top parameters, b tagging, ...]	Student reports or further lectures / exercises? 8:30 – 12:30
Welcome and organisation issues 14:00-14:30 Lecture: Physics at the Terascale 14:30 – 16:00 [lessons from LEP, Tevatron and HERA, SM and its challenges, Physics at LHC and ILC, ATLAS+CMS, physics objects] Tutorial: ROOT 16:30 – 18:30 [overview of analysis setups, histograms, functions, fitting, starting with Z-->ll]	Lecture: QCD at LHC 14:00 – 15:30 [processes, quarks and gluons in final state, fragmentation, jets and algorithms, alphas, Tevatron results] Tutorial: Jets etc. 16:00 – 18:30 [jet finding, algorithms, differences, jet calibration, corrections, unfolding etc.]	Lecture: Monte Carlo and calculations 14:00 – 15:30 [Introduction to the MC method, MCs and calculations at NLO etc., overview of what exists and what is missing] Tutorial: Monte Carlo 16:00 – 18:30 [calculate pi, integrate distribution, create distribution, run PYTHIA / HERWIG, create events Z--> ll, let Z-->ll analysis from day before run on it]	Lecture: Higgs and other searches 14:00 – 15:30 [Higgs, SM extensions, SUSY, chi^2, limits etc.] Tutorial: Searches and statistics 8:30 – 10:15 [extracting a signal from a data set, non-discovery --> limit, what else in the data set?]	