

INFN Course on C++ , Root and GEANT 4
Timetable

Day 1 - Monday, 13 Dicembre 2010

9:30 *Basic Elements of C++*

Basics of C programming, Concepts of "object" and "class"; Model of Object Oriented programming; C++ syntax; Definition of "Class"; Methods and attributes; Visibility; Constructors and destructors; Examples of usage

11:30 Coffee Break

12:00 *Basic elements of C++: practical exercises*

13:30 Lunch

15:00 *Advanced elements of C++*

Objects and pointers; Ereditariety and virtual inheritance; Abstract classes; Examples of usage

16:30 Coffee Break

17:00 *Advanced elements of C++: practical exercises*

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Day 2 - Tuesday, 14 Dicembre 2010

9:00 ***Advanced elements of C++***

Leftover of the previous day (exercises, questions, etc.); Brief introduction to the concept of design patterns; Singleton

10:15 ***Basic elements of a Monte Carlo simulation toolkit:
GEANT4***

Introduction to Geant4; Geant4 scope; Geant4 classes

11:30 *Coffe Break*

12:00 ***Basic elements of a Monte Carlo simulation toolkit:
GEANT4***

Leftover from the previous session; Geant4 applications and capabilities; Discussion

13:30 *Lunch*

15:00 ***Basic elements of ROOT***

Introduction to ROOT; GUI, histograms, files, trees; Named and unnamed scripts; Use of ROOT in external programs

16:30 *Coffee Break*

17:00 ***Basic elements of ROOT***

Leftover from the previous session; Usage of customized user classes in ROOT; Discussion