

# 0

## Gaudi Tutorial Basics

Gaudi Framework Tutorial, April 2006



## Outline

- 1. Introduction
- 2. Configuration and Build system
- 3. Printing and Job Options
- 4. Accessing Event Data
- 5. Histograms and N-tuples
- 6. Creating Objects and Writing Data
- 7. Writing and Using Tools

1-2

Gaudi Framework Tutorial, April 2006



## Aims of the Tutorial

At the end of the tutorial you should:

- Be more familiar with Gaudi terms and concepts
- Be able to start code development of algorithms within Gaudi
- Be able to write simple analysis programs using the recipes in the DaVinci tutorial

1-3

Gaudi Framework Tutorial, April 2006



## Methodology

- Short presentations
- Emphasis on exercises
  - Start with an (almost) empty file
  - Work towards a fully featured application
  - New concepts and components introduced at each step along the way
- Distribute and document examples for self-training as well

1-4

Gaudi Framework Tutorial, April 2006



## Logistics

- We will use the LXPLUS public service for the Tutorial
  - Everybody should have an account (in Z5 LHCb group)
- Two people per station
- The working directory will be in your AFS home directory
  - ~/cmtuser
- Set environment by executing
  - > LHCbEnv v20r3

1-5

Gaudi Framework Tutorial, April 2006



## Tentative Schedule

09:15	1 Introduction	M. Cattaneo
10:00 Coffee Break		
10:15	2 Configuration & Build System ( <i>Exercises</i> )	M. Cattaneo
11:00	3 Printing and Job Options ( <i>Exercises</i> )	M. Cattaneo
12:00 Lunch		
13:30	4. Accessing Event Data ( <i>Exercises</i> )	M. Cattaneo
14:30	5. Histograms and N-tuples ( <i>Exercises</i> )	M. Cattaneo
15:30 Coffee Break		
16:00	6. Creating objects and writing data ( <i>Exercises</i> )	M. Cattaneo
16:45	7. Writing and using Tools ( <i>Exercises</i> )	M. Cattaneo

1-6

Gaudi Framework Tutorial, April 2006

