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Getting started with Gaudi and building tools

Gaudi Framework Tutorial, 2001



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. Using Algorithm Tools
- 8. Writing Physics Tools

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Aims for the Tutorial

At the end of the day you should:

- Be more familiar with Gaudi terms and concepts
- Be able to start code development of reconstruction algorithms within Gaudi
- Be able to write simple analysis programs using the available facilities
- Be able to start developing *Physics Tools* to be added in the collaboration ToolBox

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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

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Logistics

- We will use the LXPLUS public service for the Tutorial
 - Everybody should have an account
- Two people per station
- The working directory will be in your AFS home directory
 - ~/tutorial
- Set environment by executing
 - > source \$LHCBHOME/scripts/tutorial.csh

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Tentative Schedule (Day 1)

9:15	1 Introduction	P. Mato
9:45	2 Configuration & Build System (<i>Exercises</i>)	P. Mato
10:30 Coffee Break		
11:00	3 Printing and Job Options (<i>Exercises</i>)	M. Frank
12:30 Lunch Break		
14:00	4 Accessing Event Data (<i>Exercises</i>)	M. Frank
15:30 Coffee Break		
16:00	5 Histograms and N-tuples (<i>Exercises</i>)	M. Frank

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Tentative Schedule (Day 2)

9:15	6 Creating Objects and Writing Data (<i>Exercises</i>)	M. Frank
10:30 Coffee Break		
11:00	7 Using Algorithm Tools (<i>Exercises</i>)	G. Corti
12:30 Lunch Break		
14:00	8 Writing Physics Tools (<i>Exercises</i>)	G. Corti
15:30 Coffee Break		
16:00	(<i>Exercises</i>)	

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Credits

Gaudi Team:

– I. Belyaev, M. Cattaneo, G. Corti, M. Frank, G. Gracia, P. Mato, S. Ponce, F. Ranjard, S. Roiser

Athena Team:

– D. Quarrie, C. Tull

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