



LHCb

G. Punzi

Pisa - Preventivi 2013

2/7/2012



Status of the Group



- Presented to INFN-Pisa May 18
- Presented in CSN1 on May 28
- Presented to LHCb membership board June 5
- **Admitted** by LHCb CB vote on June 20: welcome !



Initial commitments of Pisa group

- Contribute to maintaining, updating, and improving the tracking-related software in order to fulfill the needs of the experiment, especially those regarding data taking.
- Future runs at higher collision energy are expected to put additional demands on the data processing system.
- *The planned LHCb upgrade for 2018 foresees an increased input rate to the HLT from now 1MHz to 10-40MHz. This requires a significantly faster running time of the HLT algorithms, in particular the vertex and main tracker reconstruction. A part of the improved algorithms can be developed in the LS1 (2013/14) and then be tested in the 14TeV running period starting 2014/15.*



People

- Giovanni Punzi 0.7
- Franco Bedeschi 0.7
- Michael Morello 0.7

TOTAL 2.1 FTE

Students

- Federica Lionetto (uG)

CDF students finishing in 2012 -> LHCb in 2013

- Sabato Leo
- Fabrizio Ruffini
- Pietro Marino (uG)



Richieste

- Need frequent trips to CERN to startup the group. Must learn everything from the ground up !
- ME:
 - LHCb-weeks
 - Tracking meetings
 - Participation to online software maintenance
 - 4.5mU -> 16k€
- MI: 2k€
- CO: Metabolismo 3k€
- IN: Local storage/CPU in Pisa
 - 10k€ T.Square + storage 5k€



Richieste

MI		2.0	
ME		16.0	
CO		3.0	
IN	Local computing	15.0	
TOT		36.0	