



## Timebased Simulation Status

15. Januar 2013 | Tobias Stockmanns

## **Status**



- FairRoot framework
  - Event mixing of background and signal data
  - TimeStamp info in data classes
  - Pile-up / mixing mechanism
  - Time sorting of data
  - Extraction of data for reconstruction
  - MC truth propagation for time based data (it works but it is too slow)

DONE DONE DONE DONE DONE PARTLY DONE



## **STATUS**



Detector	Status	Responsible	Comment
DRC	No	DRC group	
EMC	TS-PU-ST	Jifeng / Philipp	Not in SVN
FTOF	No	Stefano / Alicia ?	
FTS	No	Isabella ?	Why not derived from STT?
GEM	PU-ST	Radek	Time stamp not correctly assigned
LMD	TS-PU-ST-RC	Mainz	Derived from SDS
MDT	No	Stefano	
MVD	TS-PU-ST-RC	Tobias	Derived from SDS
RICH	No	Stefano	
SciTil	No	Alicia	No digitization
STT	TS-PU-ST-RC	Tobias / Marius	

TS: time stamp assinged – PU: pile-up implemented – ST: sorting – RC: time based reconstruction

**p**anda

## **Important Tasks**



- Detectors
  - Assign to each detector hit a reasonable time stamp
  - Implement the sorting of the data
  - Implement the pile-up effects
  - Use time information for reconstruction
- Local time based tracking
- Global time based tracking
- Event reconstruction

