

# PANDA Computing

7th of September, 2009, Juelich, Germany







# Computing Session at CM XXX.

from Monday 07 September 2009  
(14:00)

to Tuesday 08 September 2009  
(00:00) (Europe/Berlin)





chaired by:

**Johan Messchendorp (KVI/University  
of Groningen)**

[Monday 07 September 2009 |](#)

Monday 07 September 2009

[top](#)↑

14:00	Welcome (10')	Johan Messchendorp
14:10	A new approach to 3D track finding (in the TPC) .... (50') ... 5-dimensional fast Hough transform on a GPU	Felix Boehmer
15:00	Progress in the pattern recognition with STT alone (30')	Gianluigi Boca
15:30	A Riemann track finder (30')	Andrii Gromliuk
16:00	BREAK coffee & tea, sorry no beer!	
16:30	The new structure of (LHE)-tracking and PID packages (30')	Stefano Spataro
17:00	"lhetrack" tracking with GEM detector (20')	Gosia Sudol
17:20	Neutral Particle Identification in the PANDA Electromagnetic Calorimeter (30')  Slides  ) ... pi0 versus gamma identification	Elwin Dijck
17:50	EMC calibration issues (20')	Ola Biegun
18:10	Studies for Barrel TOF with the phi-phi-pi0 channel (30')  Slides  )	Bernhard Roth



# Code developments - PandaRoot

## Tag Cloud of Words in Commit Log Messages

adapted benchmark bugfix bugs **change** check class **classes** clean cleaned **cluster**  
**code** **comment** commented coordinate correct corrected correction cuts **data** debug dedx  
default detector draw endcap **error** event field **file** finished first **fixed** fixes flag forward  
function geane **genfit** geometry histogram hits hough **implementation**  
implemented **include** just kalman leak line **macro** made memory **method** minor  
missing modification modified momentum move **name** need number only output **parameter**  
**plot** pndtrack point position program programming propagation reco **remove** replace residuals  
root running several simulation **small** solved start structure stuff task tctrack **test** testchamber  
**track** tree tutorial **update** using value variable vector **version** working



# Code developments - PandaRoot

**pandaroot ->**

<b>/develop</b>	<b>- working area for developers</b>
<b>/trunk</b>	<b>- head of repository; compiles/builds</b>
<b>/stable</b>	<b>- compiles/builds + QA macros</b>
<b>/releases/...</b>	<b>- user releases</b>

- ✓ Many ongoing developments --> various improvements & bugfixes
- ✓ Growing “user” community!!
- ✓ Milestone: the next GRID-enabled “user” release scheduled for December ‘09



# Important organisational updates

## ✓ New FairSoft release “jul09”

- root5.24, boost1.39, cmake2.6.3, gsl1.12, geant4.9.2/  
geant3.21+updates VMC, vgm5.43 + ....
- SVN: <https://subversion.gsi.de/fairroot/fairsoft/release/jul09>
- Update your FairSoft external package for upcoming releases!!

## ✓ New Ticket system for bug reports

- <https://subversion.gsi.de/trac/fairroot>
- partly replaces “bugs, fixes, releases” forum
- please use it!!!

## ✓ Computing Committee

- approved by coordination board in June
- <http://panda-wiki.gsi.de/cgi-bin/view/Computing/PandaComputingCommittee>
- this week kick-off event





# Computing Session at CM XXX.

from Monday 07 September 2009  
(14:00)

to Tuesday 08 September 2009  
(00:00) (Europe/Berlin)





chaired by:

**Johan Messchendorp (KVI/University  
of Groningen)**

[Monday 07 September 2009 |](#)

## Monday 07 September 2009

[top](#)↑

14:00	Welcome (10')	Johan Messchendorp
14:10	A new approach to 3D track finding (in the TPC) .... (50') ... 5-dimensional fast Hough transform on a GPU	Felix Boehmer
15:00	Progress in the pattern recognition with STT alone (30')	Gianluigi Boca
15:30	A Riemann track finder (30')	Andrii Gromliuk
16:00	BREAK coffee & tea, sorry no beer!	
16:30	The new structure of (LHE)-tracking and PID packages (30')	Stefano Spataro
17:00	"lhetrack" tracking with GEM detector (20')	Gosia Sudol
17:20	Neutral Particle Identification in the PANDA Electromagnetic Calorimeter (30') (  Slides  ) ... pi0 versus gamma identification	Elwin Dijck
17:50	EMC calibration issues (20')	Ola Biegun
18:10	Studies for Barrel TOF with the phi-phi-pi0 channel (30') (  Slides  )	Bernhard Roth