UA9

MD June 18/19 2009

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for the UA9 collaboration

no beam until 1:15 A.M.

beam in coast at 4:20

What works:

The beam

BCT

Fast BCT

Collimator BLMs

Detectors on TAL

Collimator alignment motors

TAL alignment motor

What doesn't work:

SPS BLMs
(Stefano should know why)

Wire scanners
(probably a problem of timing easily fixable)

Crystal motor for rotation:
it works but seems that the
crystal also moves when it
rotates.
(We are investigating the
problem and we also have
a second crystal to check).

What was measured:

Beam lifetime:
56.7 h

Emittance at 2σ:
(in TT2 because the wire scanners don't work)
Horizontal 2.2 μm, Vertical 0.8 μm

Tune:
Horizontal: 0.125, Vertical: 0.173.

Orbit:
1.1 mm

Position of TAL and crystal after
scraping with the collimator

Repositories:

All measurements but collimator BLMs:

/user/slops/data/SPS_DATA/MD_DATA/SPS_UA9_19_06_09

Available from the control room.

DFS repository: \\cern.ch\dfs\Experiments\UA9

Data Analysis Logbook:

https://abpc11310.cern.ch/UA9

CCC Logbook:

https://ab-dep-op-elogbook.web.cern.ch/ab-dep-op-elogbook/elogbook/elogbook.php
Log in as NICE user and select SPS.

Timber

http://www.cern.ch/timber
I'm not sure that it works outside CERN network.

Collimator BLMs:

from TIMBER as explained here:
https://abpc11310.cern.ch/UA9/4