Jaakko Koivuniemi

1. Shifts 2003
2. Polarization 2003
3. Polarization by coils
4. NMR signals
Shift histogram 2003

462 shifts, half shifts and week coordinations

number of shifts

number of persons
Thanks to

Prerun period 17 April - 10 June

Time (days)

Polarization (%)

LN2 precooling
load target material
LHe filling
test magnet
TE-calibration

P1A

downstream
scrubbing run

upstream

TE-calibration

LN2 precooling
load target material
LHe filling
test magnet
TE-calibration

17 Apr
25
27 Apr
2 May
7 May
13 May
19 May
3 Jun
11 Jun

17 Apr
2 May
7 May
13 May
19 May
3 Jun
11 Jun
Physics data taking 11 June - 17 September

![Graph showing polarization over time with various events and dates marked.]

- **P2A**
  - 11 Jun: Clamitization
  - 3 Jul: Long MD
  - Downstream

- **P2B**
  - 3 Jul: Current lead repair
  - 24 Jul: Diesel power failure
  - No SPS beam

- **P2C**
  - 24 Jul: General power failure
  - No SPS beam

- **P2D**
  - 13 Aug: PSU cooling water

- **P2E**
  - 3 Sep: Long MD

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*Preliminary*

**Dates:**
- 6
- 7
- 8
- 9

**Events:**
- <
- >
- @

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*September 29, 2003*
NMR coils
TE-calibrations 2003

![Bar chart showing cal constant vs coil no for Kaori June and Jaakko May]
Polarization by coils

![Graph showing polarization over time for different coils.](image-url)
2002 polarization

Target Polarization 2002

Polarization vs. Day since 19 June 2002

-60 -40 -20 0 20 40 60 80

0 10 20 30 40 50 60 70 80 90 100

coil1 coil2 coil3 coil4 coil5 coil7 coil8 coil9 coil10
NMR signals 2003


upstream 57.6 %

downstream -48.3 %

1 58.4 %
2 59.7 %
3 52.1 %
4 60.0 %

#1 58.4 %
#2 59.7 %
#3 52.1 %
#4 60.0 %
#6 -45.0 %
#7 -47.9 %
#8 -49.9 %
#9 -49.2 %
#10 -49.7 %
Signals areas

upstream 57.6 %

downstream -48.3 %

21 Jul 2003 12:27:23 areas
Scaled NMR signals

Coil #1
12 - 15 June
+8.0 %
+15.0 %
+20.0 %
+30.0 %
+35.0 %
+40.0 %
+45.1 %
Introduction

The scope of this workshop is polarized solid targets and their use in particle physics experiments as well as related aspects in other applications. Workshops in this series take place since 1969. This workshop is jointly organized by the University of Bochum and the University of Bonn. It will take place in Bad Honnef, a town near Bonn at the pictorial Rhine river.

Venue and Date

The workshop will be held from

October 27 - 29, 2003

in the

Physikzentrum of Bad Honnef, Germany