EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

L3 Note 2204
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Minutes of the BGO Meeting 25/11/97

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Agenda:

- Status Reports
  - BGO (Vinod Gupta)
  - LUMI (Frank Filthaut)
  - EGAP (Xavier Chereau)
  - ALR (Jean Fay)
  - VSAT (Tasja van Rhee)
  - RFQ (absent)
  - XENON (Franz Muheim)
- Shower Fitting (Frank Filthaut)
- Shifts 1998 (Alfons Weber)
- Task Distribution (Alfons Weber)

1 Status Reports

1.1 BGO/Readout (Vinod Gupta)

In 1997 the BGO and readout uptime were 99%. The noise level was 1.5 MeV in most of the detector. Some correlated noise was seen during the times when the toroid was on. The new power control system (new PC's and network cards) worked very well.

The idea to replace VXL3EC to save 20 kCHF/year on maintenance cost was rejected, as the readout using this machine worked very reliable.

Work on improved L3 cooling system is on its way.

1.2 LUMI/SLUM (Frank Filthaut)

SLUM was reinstalled during 96/97 shutdown, but was only brought back into operation for 97b. Pedestal shift is under investigation. A survey has to be performed.

One bad BGO channel will be repaired. The PC to test the level 1 boards for LUMI and BGO has to be replaced since the existing one broke down.

1.3 EGAP (Xavier Chereau)

Noise is significantly lower in 1997. A sudden jump to a slightly higher noise level was observed after the 130GeV running. An intercalibration was performed using 25 pb^{-1}. It reduced the Bhabha resolution from 21% to 17% a new calibration using all available data is on its way.

1.4 ALR (Jean Fay)

Significant pedestal shifts are seen in the ALR. A daily pedestal run is indispensable. The noise situation was favourable leading to a very low (0.7%) veto inefficiency.

1.5 VSAT (Tasja van Rhee)

The radiation damage caused a signal decrease in the VSAT. The light output is now roughly 70% compared to the install time and was stable throughout the year. The high trigger rate from one of the four boxes was fixed by including only the central 8 crystals in the trigger and not the entire box. It is foreseen to dismount VSAT and to replace the beam pipe by a smaller one in order to put the VSAT closer to the beam pipe (55mm instead of 60mm).

1.6 RFQ (absent)

No presentation was given. Alfons Weber said that the RFQ run of 10.-17.11. was very successful and the calibration is on the way.

1.7 XENON (Franz Muheim)

Franz stated that no special problems were observed in 1997: In the beginning of the year the timing and intensity of the Xenon lamps was tuned, as always. One power supply broke down and was replaced. The availability of spares is checked. A spare Amiga is available.

2 Shower Fitting (Frank Filthaut)

The status of the shower fitting for the BGO was presented. (For details see the attached transparencies.)

3 Shifts 1998 (Alfons Weber)

After the presentation of new shift scheme with a **Shifter on Duty**, a discussion took place with the result, that we stay with the present shift scheme. In contrary: The possibility of joining HCAL and BGO shifts should be evaluated.

The BGO group volunteered to check the general L3 data quality, if these checks are available.

4 Task Distribution (Alfons Weber)

All the task associated to the BGO are covered in 1998:

	responsible	
task	1997	1998
Online		
BGO/readout		Vinod Gupta
LUMI/SLUM		Simon Blyth, Frank Filthaut
EGAP	Riccardo Faccini	Francesca Cavallari, Xavier Chereau
ALR		Jean Fay, Michel Chemarin
VSAT	Tasja van Rhee	Frank Linde
MONCO	Riccardo Faccini	Francesca Cavallari, Simon Blyth
ECMONI, DB		Maneesh Wadhwa
RFQ		Utsawa Kumar Chaturvedi, Chris Tully
pedestals		Alfons Weber
Xenon	Claudia Cecchi, Franz Muheim	Franz Muheim, Patrick Deglon
cooling		Gilberto Alemanni
Level 4		Michiel Sanders
Offline		
ECL3		Dominique Duchesneau
Xenon calib.	Claudia Cecchi	Patrick Deglon, Claudia Paus Cecchi
RFQ calib.	Alex Shvorob, Alfons Weber	Alvise Favare, Alex Shvorob, Marat Gataoulline
bad XTL		Dominique Duchesneau
alignment		Franz Muheim
shift org.		Maria Kienzle

(names for 1997 were only given, if different from 1998)

5 Attachments

Copies of all transparencies shown are only attached to the paper copies of this note, which may be obtained from the L3 secretary or Alfons Weber.