

WORKSHOP ON ENERGY CALIBRATION OF THE ATLAS CALORIMETERS

21 / 24 – July - 2002 AT RINGBERG CASTLE

BULLETIN 1

1. AIM OF THE WORKSHOP

The ATLAS combined performance groups and the calorimeter communities plan a two-day working meeting to discuss calibration strategies for the Liquid Argon and Tile Calorimeters. The goals of this meeting are

1. Review, understand and evaluate the strategies employed by the various calorimeter working groups in ATLAS to achieve final energy calibration, especially with respect to calibration models used in presently operating large scale heterogeneous calorimeter systems (D0, CDF, H1);
2. Generate a short-term work plan for implementation of calibration algorithms in ATHENA, to allow a somewhat realistic reconstruction of data from the upcoming Data Challenge 1 in each calorimeter module;
3. Initiate a close collaboration between interested groups and people for calibration of the ATLAS calorimeters for "Day 1" of physics (and beyond) and integrate it and all follow-up activities into the present combined performance groups. The results of the workshop will be summarized and presented to the larger community as soon as possible;

The scope of the workshop has intentionally been limited to aspects beyond details of the calibration of the readout chain for certain detectors. Specifically excluded are issues related to electronics calibration. Discussed subjects will include final calibration of reconstructed calorimeter signal objects, which includes global strategies for combining signals from various calorimeters, and treatment of crack regions. Some emphasis will be put on the use of testbeam data and collision physics (in-situ calibration) for energy scale normalization, and the determination of the corresponding errors. Calibration of physics objects in specific final states is, on the other hand, beyond the scope of this particular workshop.

The ATLAS calorimeter group at MPI Munich welcomes to host the workshop at Ringberg Castle, which in its remote setting provides a productive working atmosphere.

2. ORGANIZATION

- **Advisory Committee**

M. Bosman (IFAE), J.B. Hansen (CERN), A. Kiryunin (MPI), P. Loch (Arizona), J. Pinfeld (Alberta), P. Schacht (MPI), R. Stanek (Argonne)

- **Local Organizing Committee**

M. Aderholz, U. Grenzemann, A. Kiryunin, H. Oberlack, M. Schaber, P. Schacht

- **WEB Page**

The workshop homepage is at <http://wwwatlas.mppmu.mpg.de/ringberg2002>

3. PLACE

The workshop will be held at the Ringberg Castle of the Max-Planck-Gesellschaft. The castle is situated about 50 km south of Munich in the resort area of Lake Tegernsee. It is ideally suited for small conferences with intense working atmosphere.

4. PROGRAMME

The programme will be organized in four half day meetings starting on Monday morning and ending Tuesday evening. The evenings will be left free for discussions and special events.

We foresee a joint excursion to the surroundings of Lake Tegernsee on Wednesday.

5. PARTICIPATION AND ACCOMMODATION

Participation will be restricted since the maximum number of participants which can be accommodated in the castle is limited to ~35. Accommodation of the participants will be mostly in single rooms in the castle. A few double rooms are available.

If the number of people wanting to attend exceeds the available facilities, priority for accommodation at the castle will be given to key people from the calorimeter groups working on the relevant topics, and to a few invited calorimeter calibration experts from other experiments. For all other participants hotel accommodation in the vicinity will be organized for approximately the same price.

In view of the limited space, we ask for your early request for participation.

Registration is requested by 1-June-2002.

The package price will be **320 EUR** including transport to and from Munich by bus, accommodation in the castle, full board during the three days, as well as coffee, tea and refreshments during meeting breaks.

In order to facilitate the organization, payment by bank transfer is strongly requested. Payment should be made to:

	Horst Oberlack
Bank:	Deutsche Bank 24
BLZ:	700 700 24
Account #	61 83 479 / 01
BIC (Swift-Code)	DEUTDEDBMUC
Remark:	Ringberg workshop 2002

The package price will increase by 30 EUR to 350 EUR for participants whose payments are received after 15-Jun-02.

In very exceptional cases payment in cash (**EURO**) at arrival is possible.
Credit cards will not be accepted.

6. TRANSPORTATION

On Sunday, 21-Jul-02, a bus will be provided to transport the participants from the MPI fuer Physik in Munich to the Ringberg Castle. The bus will depart at **16:00 h**.

On Wednesday, 24-Jul-02, a bus will transport the participants from the Ringberg Castle to Munich airport and to the MPI. It will arrive at the **airport ~16:15 h** and at the **MPI ~17:00 h**.

For information on transportation from the main railway station / airport to and from the MPI see the workshop homepage at <http://wwwatlas.mppmu.mpg.de/ringberg2002>

For those arriving / departing outside of the usual transportation scheme: A local train connects Tegernsee, a town near Ringberg Castle, with Munich airport in ~1h 45m. For details see the workshop homepage <http://wwwatlas.mppmu.mpg.de/ringberg2002>

REGISTRATION FORM

People interested in the participation are requested to fill in the following information and return it (preferentially by E-mail) to

→ **U. Grenzemann** urg@mppmu.mpg.de

→ not later than **01-June-2002**

Last Name:

First Name:

Position/ Title:

Institution:

Address:

Phone Number:

Fax Number:

E-mail:

Arrival date, time and train / flight number:

Departure date, time and train / flight number:

- **Registration Fee** paid: YES / NO

€320

if payment received **BEFORE 15-June-2002**.

€350

The registration fee increases by €30 if payment is received **AFTER 15-June-2002**.

- Do you intend to participate in the half-day **excursion** on Wednesday, July 24th:

YES / NO

- Request for **lodging in Munich** outside of the workshop:

YES / NO

From:

Until: