



PSI, Villigen
July, 1999

**MINUTES "BESCHLUSSKONFERENZ"
OF THE USERS MEETING BV 29 AT PSI
July 5/6, 1999**

present: Prof. R. Eichler (Chairman)
Dr. W. Fischer
Dr. K. Gabathuler
Dr. G. Goitein
Dr. D. Herlach
Dr. Q. Ingram
Prof. K. Maier
Dr. E. Morenzoni
Dr. C. Petitjean (secretary)
Dr. R. Rosenfelder
Dr. P.A. Schmelzbach
Dr. T. Stammbach
Dr. E. Steiner

excused: Prof. J.V. Kratz
Dr. D. Müller
Prof. P. Truöl

1. Approval of Experiments

The recommendations of the BVR research committee and the Philips Cyclotron (PC) committee are acknowledged.

New Proposals

- R-99-05.1 Search for $\mu^+ \rightarrow e^+ \gamma$ down to 10^{-14} branching ratio
T. Mori et al., Tokyo, Tsukuba, Nagoya, Novosibirsk
Approved, with a set of "milestones" to be met and questions to be answered before proceeding any further.
- R-99-06.1 Precision Measurement of the μ^+ Lifetime (G_F) with the FAST Detector
J. Kirkby, M. Pohl et al., CERN, ETHZ, Bologna, Ann Arbor, Naples, Amsterdam, PSI, Berkeley
Approval deferred to the next meeting for clarification of some open questions asked by the committee.
- R-99-07.1 A Precision Measurement of the Positive Muon Life Time Using a Pulsed Muon Beam and the μ Lan Detector
R.M. Carey, D.W. Hertzog et al., Boston, Illinois, Minnesota
Approved, subject to an agreement on the financing and construction of the pulsed muon beam.
- Z-99-05 Investigation of the multiple ionization in M, N and O shells of heavy atoms induced by energetic ^{16}O ions
J.-Cl. Dousse et al., Fribourg, Kielce, Swierk, Grenoble
Approved, 60 shifts, conditions see PC protocol.
- Z-99.06 Measurement of the Neutron - Proton Spin Correlation Parameter A_{zx} at forward angles
J. Jourdan et al., Basel, PSI
Approved, 74 shifts.

All approvals of R-experiments are subject to a Memorandum of Understanding agreed upon by the collaborations (see introduction of the previous minutes BV28)

Update and Supplement to a Letter of Intent

- R-98-05.0/1 Search for the decay $\mu^+ \rightarrow e^+ \gamma$
C. Bemporad, A. van der Schaaf et al., Pisa, Zürich, Dubna, Pavia, PSI, Roma, Otwock-Swierck, Tbilisi
The efforts and expertise in testing new crystals and in developing the π E5 beam are acknowledged. The collaboration is encouraged to introduce the acquired knowledge into the future $\mu e \gamma$ experiment at PSI by joining it.

2. Beam Schedules

The beam schedules for 1999II as presented by the coordinators are endorsed with some slight adjustments. The 1999 HE beam production will end in the morning of December 22. The shortened target E (optimized for higher neutron fluxes at the SINQ) will be installed on October 27, 1999. In case of a technical failure of the present 6cm-C target, this installation might already be done up to 4 weeks earlier.

While the cyclotrons operate now regularly with 1.5 mA proton current, higher currents (1.7 mA with the eventual goal to reach 2 mA) are being tuned.

For the coming year, the plan is to resume beam production by mid March 2000 and to operate the cyclotrons again until Christmas, hopefully with increased currents for the benefit of all users.

3. Varia

The next users meeting BV30 is scheduled for January 17-18, 2000. The deadline for beam requests, new proposals and addenda is **November 26, 1999**.

The next PC users meeting is scheduled for December 13, 1999.