

Subject: NEED FOR LETTERS OF SUPPORT FOR UPCOMING DECISION for a NUCLEAR RESONANCE BEAMLINE at PETRA III DESY

Dear present and future members of the Mössbauer Community in Germany and Europe,

As some of you might have heard already there is a high chance that the new synchrotron source PETRA III at DESY Hamburg will have a beamline dedicated to Nuclear Resonance Scattering (NRS) Techniques. It is planned that the upcoming beamline P01 is shared in between users of Nuclear Resonance (Nuclear Forward and Nuclear Inelastic Scattering as well as synchrotron based PAC) and Inelastic X-Ray Scattering Techniques. The first beam of the new facility is scheduled for 2009.

In order to push the decision into a direction positive for the Mössbauer and Nuclear Resonance community we now need LETTERS of SUPPORT from AS MANY AS POSSIBLE PRESENT AND FUTURE USERS of NUCLEAR RESONANCE TECHNIQUES. Even if you JUST PLAN to use this technique in the future it is VERY IMPORTANT for us to have such a letter of support.

Since the design of PETRA III will allow one to have a so far not reached small source size and beam stability, focusing of the beam down to nanometer spots on the sample will be possible for long periods of time.

Moreover, the additional beamline would at least double the available beamtime for the community in Europe making spectroscopy not only feasible but also routinely and fast available. Therefore the Nuclear Resonance Scattering beamline at PETRA III will NOT replace the NRS beamline facilities at the ESRF but will allow for better access to the technique for the users and will be complementary to the ESRF facilities.

On Monday Nov. 24, 2008 there will be a meeting at DESY Hamburg where the technical design of the beamline will be discussed among the following people:

Representatives of DESY:

Hermann Franz
Ralf Röhlsberger

Pieter Glatzel (ESRF; as a representative of the IXS community; electronic excitations)
Ercan E. Alp (APS, Argonne; as a representative of the NRS and IXS community)
Ingo Loa (as a Representative of the X-Ray Inelastic Scattering Community)

and both of us

Rudolf Rüffer (ESRF, Grenoble)
Volker Schünemann (as a Representative of the Nuclear Resonance Scattering Community)

It is planned that shortly after the meeting a Technical Design Report as well as a Scientific Case will be filed to the DESY directors and the Scientific Council.

We have a first version of a Scientific Case of the PETRA III beamline already and we want to thank those of you who took the effort to contribute to this work. Those of you who still want to contribute to it may write an Email to

schuene@physik.uni-kl.de

and you will receive the current version of the Scientific Case immediately.

Almost equally important is now that **AS MANY AS POSSIBLE PRESENT AND FUTURE USERS of NUCLEAR RESONANCE TECHNIQUES** send **LETTERS of SUPPORT** for this beamline. No matter if you have already contributed to the Scientific Case or even if you just plan to use this technique in the future it is **VERY IMPORTANT** for us to have as many as possible letters of support. You can either send them via Email or via fax to:

EMAIL: schuene@physik.uni-kl.de

FAX : ++49 631 205 4958.

You can also use conventional mail and send your letter to the following address:

Prof. Dr. Volker Schünemann
Department of Physics
Technical University of Kaiserslautern
Erwin-Schrödinger Strasse 56
67663 Kaiserslautern

We have to put a **DEADLINE** which is Dec. 1st 2008, because the letters will be presented to the DESY Directorium shortly after that date.

Enclosed you find a word document with the relevant address already included for your convenience.

If you have any more questions please do not hesitate to contact us not via phone but via email (schuene@physik.uni-kl.de, rueffer@esrf.fr) because right now we have beamtime together at the ESRF in Grenoble.

Best regards

Volker Schünemann and Rudolf Rüffer