Instructions for users of XAFS stations

Important information when using XAFS-related experimental stations (BL-7C, 9A, 9C, 12C, NW2A and NW10A) at the Photon Factory is summarized. Please read carefully and keep this until the end of the program.

Assignment of stations
Specification of each beam line can be found at the following web sites.
http://pfwww.kek.jp/users_info/users_guide_e/station_spec_e/index.html

In general,
Experiments which require focusing at low energies are allotted to BL-9, 7C or 12C.
Experiments at rather high energies, above 20keV, are allotted to NW10A.
Some of XAFS experiments which cannot be carried out at BL-7C (mainly small samples or dilute systems) will be allotted to BL-12C or 9C. The optics and equipments of BL-9C is similar to those of BL-12C but nineteen elements pure Ge detector cannot be used.
Dispersive XAFS experiments are carried out at NW2A.
Nineteen elements pure Ge detectors can be used at BL-9A, 12C and NW10A. Since they are very expensive and fragile, those who plan to use them should contact beamline scientist before submitting a proposal.

The unit of beamtime
The unit of a beamtime is 12n hours (n is an integer).
The users should do the followings within the assigned beamtime.
The former group should put everything on the correct place.
The latter group should ask the former one about the situation of the station and check if there is no missing equipment and if the alignment is correct.
The users assigned on Monday, Tuesday, Thursday, and Saturday at BL-9A, 12C or NW10A should fill-up liquid nitrogen into the 19-elements detector.
When you find any trouble at the station or quality of spectra, please let us know keeping the condition; it is very hard to reproduce the same condition.
Check if there are any missing tools (the key of the beamline tool box is hang on the inside wall of each hutch as indicated below with • sign).

Information about your beamtime
Spokespersons are requested to submit "experimental plan" in order to clarify their requirements for beamtime and equipments. The format can be downloaded at the following PFXAFS web site.
http://pfwww.kek.jp/nomura/pfxafse/
Also she/he is requested to keep close contact with the contact person and make your experimental plan. The beamtime will be informed to the spokesperson and the contact person in Japan. If there are some days those are not convenient for your experiment, indicate them in the form. Special requirements for beamtime should also be clearly written in it. It is very hard to change the schedule once it is fixed. The schedule will be informed to your contact person as follows;
Period of beamtime
beamtime between April and June : late February
beamtime between October and December : late August
beamtime between January and March : late November
However, the schedule is subject to change. Thus it is recommended to pay attention to the latest information and keep close contact with your contact person in Japan. If you cannot receive the information on the beamtime even 3 weeks before the starting of the above described beam period, please contact me. The operation schedule can be found at http://pfwww.kek.jp/unten/titlee.html.

Microcomputers and media for data storage
The control and data acquisition systems are Windows based. USB memory and CD-ROM can be used for data storage.
Please assure that your USB memory is not infected by virus by using anti-virus software with the latest virus definition file.

Network connection etc.
Following equipments are prepared at each experimental station.
• A Windows PC connected to our network; Japanese environment only.
• Wi-Fi system. Submit “Application for Wireless LAN access (for Tsukuba Campus)” from “user support system”. However, please apply the update of OS and install antivirus software with the latest virus definition file for the sake of security. Do not use file-exchange software such as Winny.

Photosensitive film etc.
Linagraph paper is useful in order to check the beam position and its shape. However, it cannot be obtained now. In place of Linagraph paper, Gafchromic film can be used. Detailed information can be found at http://www.gafchromic.com/.

Accommodations and visa application
KEK provides dormitory for users. Reservation should be done through your contact person in Japan or directly at the “user support system”: https://ganko1.kek.jp/uskek/ui/UI_00000E.do. As the number of rooms is limited, rooms should be booked at least five weeks before the beamtime. Make your travel plan carefully and do not change your schedule after the reservation.
If you need some documents in order to apply Japanese visa, please contact your contact person in Japan (CPJ). KEK will prepare necessary documents based on the information from the CPJ. Please keep enough period to prepare them since it takes some weeks in the visa procedure in MOFA in some cases.

Useful web site
Some useful information can be obtained in the following web site.
  KEK homepage  http://www.kek.jp/index.html
  PF homepage  http://pfwww.kek.jp/index.html
  PFXAFS homepage  http://pfwww.kek.jp/nomura/pfxafse/
Useful web site
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  KEK homepage  http://www.kek.jp/index.html
  PF homepage  http://pfwww.kek.jp/index.html
  PFXAFS homepage  http://pfwww.kek.jp/nomura/pfxafse/
  specification of XAFS stations, formats, useful software for XAFS experiments etc.

Reports on Beamlines
Following reports have been published about the design and performance of XAFS beamlines. We expect you to cite the related report when you publish a scientific paper. Those who need these reports are requested to send Nomura the information for mailing address through e-mail or FAX.
[BL-7C]

[BL-12C]

[BL-9A]

[NW10A]

[NW2A]

If you have any question, contact to

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