

HP-CAT 16ID-D Beamtime Request Form

Communications between beamline scientists and experimenters are confidential.
This form is for beamtime planning only.

Each proposed experiment should have one such form.

Please clearly indicate what type of experiment. The possibilities currently offered at IDD are,

1. **IXS** – inelastic X-ray scattering with medium energy resolution;
2. **XRS** – X-ray Raman scattering;
3. **XES** – X-ray emission spectroscopy
4. **RXES** – resonant X-ray emission spectroscopy
5. **NFS** – nuclear forward scattering
6. **NRIXS** – nuclear resonant inelastic X-ray scattering

In APS run 2007-2, only four will be offered – XRS, IXS, NFS, NRIXS.
There is a He cryostat can be used for NFS.

General Information

Name (person responsible for the on-site measurement):

Email and phone:

Experiment Title:

Sample Name and Composition:

Number of shifts requested:

Preferred dates:

Unacceptable dates:

**Please fill out the section pertaining to your measurement
(delete the remaining sections).**

X-ray Raman Spectroscopy (XRS)

(presently only 1eV incident energy resolution is available at 9687 eV).

Element of interest:

Edge energy (eV):

Energy loss range (eV):

q-range (1/Ang or Spectrometer Theta range °):

Inelastic X-ray Scattering for Electronic Excitations (IXS)

(presently only 1eV incident energy resolution is available at 9687 eV).

Energy loss range (eV):

q-range (1/Ang or Spectrometer Theta range °):

Nuclear Forward Scattering (NFS)

(currently Fe57 only)

Isotope: Fe57

Level of Enrichment:

Nuclear Resonant Inelastic X-ray Scattering (NRIXS)

(currently Fe57 only)

Isotope: Fe57

Level of Enrichment:

DAC accepts 2 or 3 APDs:

NFS simultaneously? :

Sample Environment (provided by the user)

Internal heating:

External heating:

Low Temperature:

(We have a Liquid Helium/ LN₂ cryostat for NFS experiments.)

For the experiments using Beryllium gaskets

Do you or any member of your group present at the experiment time have Be safety training?

We cannot schedule your beam time if the answer is No.

For questions concerning Be safety and training, please contact Dr. Peter Liermann (630-252-0477, pliermann@hpcat.aps.anl.gov).

Special requirements?