

HP-CAT BM-D Beamtime Request Form

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

Each proposed experiment should have its own request form.

Please clearly indicate what type of experiment. The possibilities currently offered at BMD are:

1. **ADXD – Angle dispersive micro x-ray diffraction**
(EDXD with white beam is available. However in 2007-2, since we need to install and commission the monochromator and the large KB mirror, only ADXD is open to member users.)

General Information

Name (person responsible for 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).**

ADXD in DAC at high-pressure

(Monochromatic energy range 5 keV-50 keV, beam size 12 μm expected)

Beam energy:

Beam size:

Detector Type:

Auxiliary techniques available for ADXD.

Resistive heated DAC at high-pressure and temperature (resistive heated cell not provided)

(power supplies available are 33A-33V, 220A-8V, Variac for heating brackets)

Power requirements for resistive heated cell:

Thermocouple connections (type and number):

Water Cooling:

Gas Flow (type):

Vacuum Pump:

Online Ruby/Raman:

DAC at high-pressure and low temperatures (cryostat provided)

(He, N₂ flow cryostat)

Type of DAC

a) Mao Bell in lever arm:

b) Membrane cell or adapter:

Gas flow:

Online Ruby/Raman:

Special requirements?