



Experiment title: Inelastic scattering on a Al-Cu-Fe single grain quasicrystal: phonon structure

Experiment number:

HS-655

Beamline:

ID-12

Date of Experiment:

from: 02.09.98

to: 07.09.98

Date of Report:

February 25, 1999

Shifts:

15

Local contact(s):

F. Sette

Received at ESRF:
02 MAR. 1999

Names and affiliations of applicants (*indicates experimentalists):

* R.A. Brand, Laboratorium für Angewandte Physik, Universität Duisburg, D-47048 Duisburg Germany

G. Coddens, Laboratoire Leon Brillouin, CEA/CNRS F-91191 Gif-sur-Yvette, France

Report:

The two approved experiments, HS-655 and HS-656 have to do with the phonon dynamics in icosahedral quasicrystals. Due to the fact that the time for the two experiments was combined, we made the choice to first look at i-Al-Pd-Mn (HS-656), and not i-Al-Cu-Fe (this report). This was done because the scattering of Pd is more favorable. The results for HS-656 are given separately.