Dear HFM-EXED user,

on the next pages you will find

i) a sketch of the 3He-cryostat interface and dimensions;

ii) a drawing of the cryostat adapter plate. The sample holder is fixed to this plate using M3 screw. The groove in the plate is used to orient the sample holder along the field. If the field orientation is important for your experiment, the sample holder should contain a tongue fitting to the groove;

iii) a simple example of the sample holder (does not contain the tongue). The bottom part where the sample will be fixed can be of arbitrary shape as defined by the sample shape and orientation. The sample and its holder should fit to the available space, see dimensions given in i);

iv) a few photos of the main components.

If you have any questions, do not hesitate to contact us,

HFM-EXED team
Sample Space
He3-Cryostat
side view

sample holder
M3x3

Cryoadapter, see p. 3

n-beam

See p. 2

sample

Ø32
9
10
Bemessungen in Millimeter
Oberflächenbeschaffenheit:
Toleranz nach DIN 7168 m ± 0.1 mm
Kantenbruch DIN 6187 ±0.2 mm

DATUM: 30.07.2015
NAME: R. Wahle

BENENNUNG:
Probenhalter-Adapter im He3 Kryo

Werkstoff: OFHC Kupfer

Gewicht: 0.04 kg

Helmholtz-Zentrum-Berlin
für Materialien und Energie
Hahn-Meitner-Platz 1
D-14109 Berlin
Bemessungen in Millimeter:
Oberflächenbeschaffenheit: Toleranz nach DIN 7168 m ± 0,1 mm
Kantenbruch DIN 6187 ± 0,2 mm

ENTGRATEN UND SCHARFE KANTEN BRECHEN

GEWICHT: 0.63 kg

Probenhalter für Probe im He3 Kryo

OFHC Kupfer

Helmholtz-Zentrum-Berlin für Materialien und Energie
Hahn-Meitner-Platz 1
D-14109 Berlin
Cryostat adapter plate, sample holder and sample as viewed from the side (top left), along the field direction (top right) and from the top (bottom left)