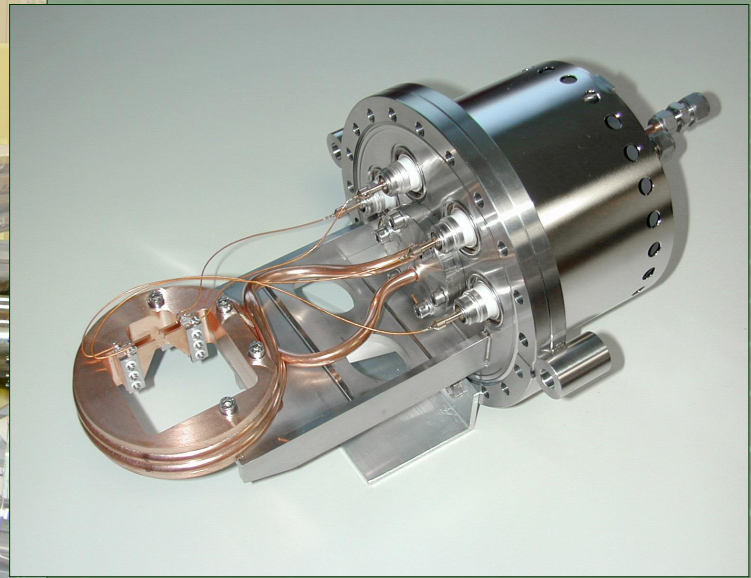
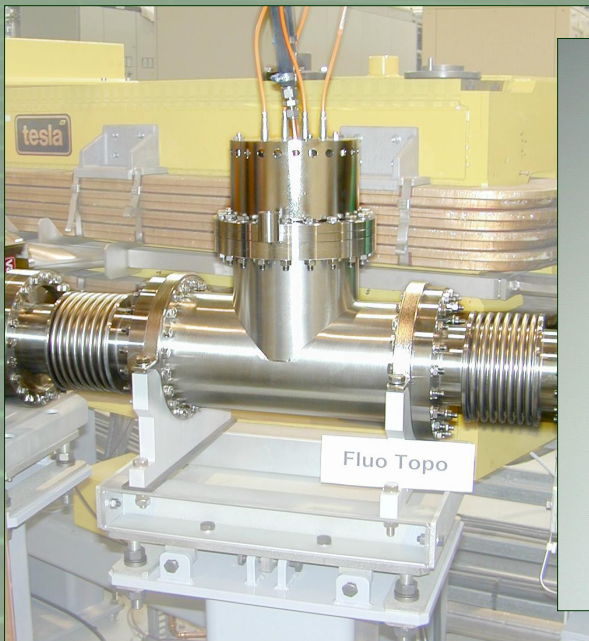


# Beam Position Monitor for Dipole Radiation



The beam position monitors are based on a development by Dr. Karsten Holldack, BESSY Berlin, in collaboration with FMB.

The beam position monitors use up to four blades, whose narrow fronts are oriented towards the radiation source, to scan the off-axis radiation of the dipole and determine on-line the position of the centre of the dipole radiation from the emitted signals.

The size and the geometry of the blades will be adapted to the beam characteristics at the place of the position monitor in order to achieve a maximum photocurrent yield at a maximum sensibility.

The blades for dipole applications consist of OFHC copper or tungsten and will be actively cooled via heat conducting ceramics to resist the thermal load of the dipole radiation.

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# Beam Position Monitor for Dipole Radiation

## Technical Data.

### Detector head

OFHC-Copper

### Blades

2 mm thick, OFHC-Copper or Tungsten

### AlN insulators, ZrO washers

0.5 mm AlN, ZrO-washers

### Stand

Steel, sand filled, polystyrole-insulated

### Vertical / horizontal stroke

Up to 20 mm

### Electronics

4 channel-current to  
DC converter LCAD4,  
internal BIAS supply

### As options available

Vacuum chamber with bellows  
x,y stage  
Column

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