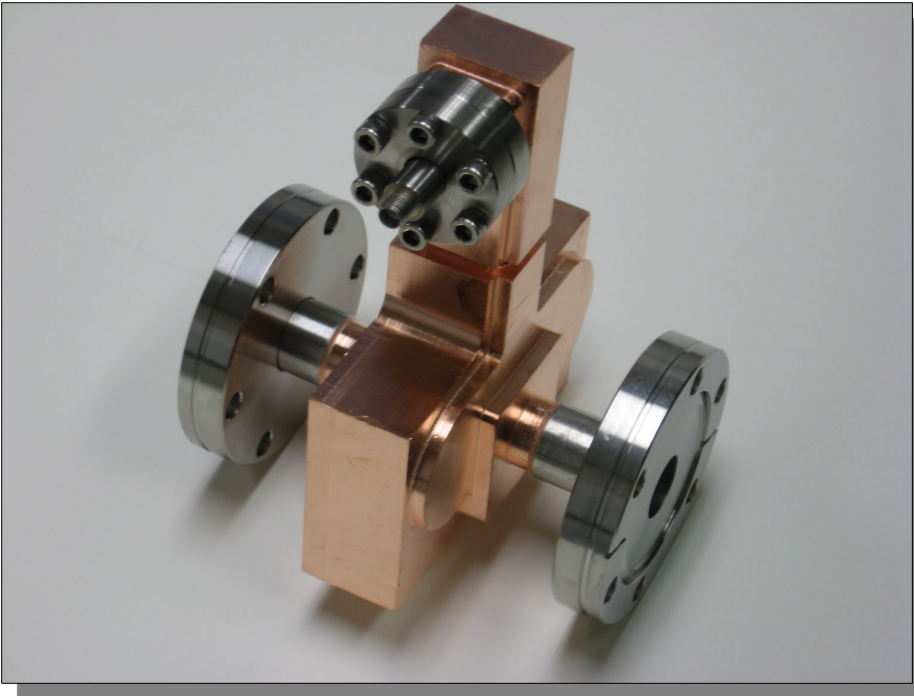


Beam Quadropole Monitor (BQM)

The resonant cavity based beam-quadropole-monitor (BQM) is non-intrusive to the beam and allows pulse-to-pulse measurement. Thus, the BQM helps to achieve higher luminosity beams and reduces beam tune-up time.



Features:

Efficient cavity design
High resolution

Resonant cavity base
Non-invasive

Single pulse measurement

Emittance measurement

- Efficient cavity design provides high shunt impedance.
- Provides high resolution (< 5 microns) of rms beam size.
- RF tests successfully performed at FAR-TECH, Inc.
- Beam tests successfully performed at Brookhaven National Laboratory.
- Beam xy-tilt can be measured with one BQM
- Beam emittance can be measured with six or more BQMs
- Complete measurement solution with electronics available

