

S-band BPM Issues

S-band Cavities

Fabrication

- *5 BPMs will be fabricated from end of March.*
- *1 BPM will be used as Brazing and RF test.*
- *4 BPMs will be shipped to KEK at end of June.*

Additional Requirement

- *Electrical center will be measured in KEK.*
- *Outside reference ($\sim 0.1\text{mm}$ accuracy) to mirror to the cavity center and check to rotation .*
- *Reference Cavity will be prepared by KNU.*

Readout Electronics

Hardware

- *UK group already have the electronics for 4 BPMs.*
- *New crate controller etc. will be ready in next few weeks.*
- *Local oscillator will be prepared by KEK.*

Software

- *will be prepared by Stewart Boogert with communicating to Terunuma-san.*

Full test (hardware, software)of readout electronics will be done until the end of summer.

see ATF2 weekey meeting on March 12th, 2008.

Others

- *Cable will be prepared by UK group.*
- *Downmix box will be supported on the CERN table.*

Supports to Magnets or Movers

- *The requirement of the BPM setting tolerances were assumed to be 30micron for Glen's simulation.*
 - *We need to check the tolerances (ask to Glen White).*
 - *We need to check not only the position tolerance, but also rotation tolerance (pitch, yaw).*
- *The BPM support will be designed and fabricated by LAPP by communicating with KNU and KEK.*
 - *BPMs should be moved with QD0, QF1, SD0 and SF1.*
 - *All of S-band BPMs should be supported directly on the movers of QD0, QF1, SD0 and SF1, because the weight of S-band BPMs are too heavy to support by magnets. ~ 15kg?*
 - *The support system required not only the support, but also alignment.*
 - *3 dimensional drawing (CAD) and the cold model will be sent from KNU to LAPP by end of April.*
 - *WebEX meeting will be planed (KEK, KNU, LAPP and SLAC).*

BPM Assemble in KEK

- *The assemble schedule will be discussed on WebEX meeting.*
- *KNU will join to the assemble.*

BPM Commissioning in KEK

- *The commissioning schedule will be discussed on WebEX meeting.*
- *KNU will join to the S-band BPM commissioning.*

Application to the ATF2 study with S-band BPM ?