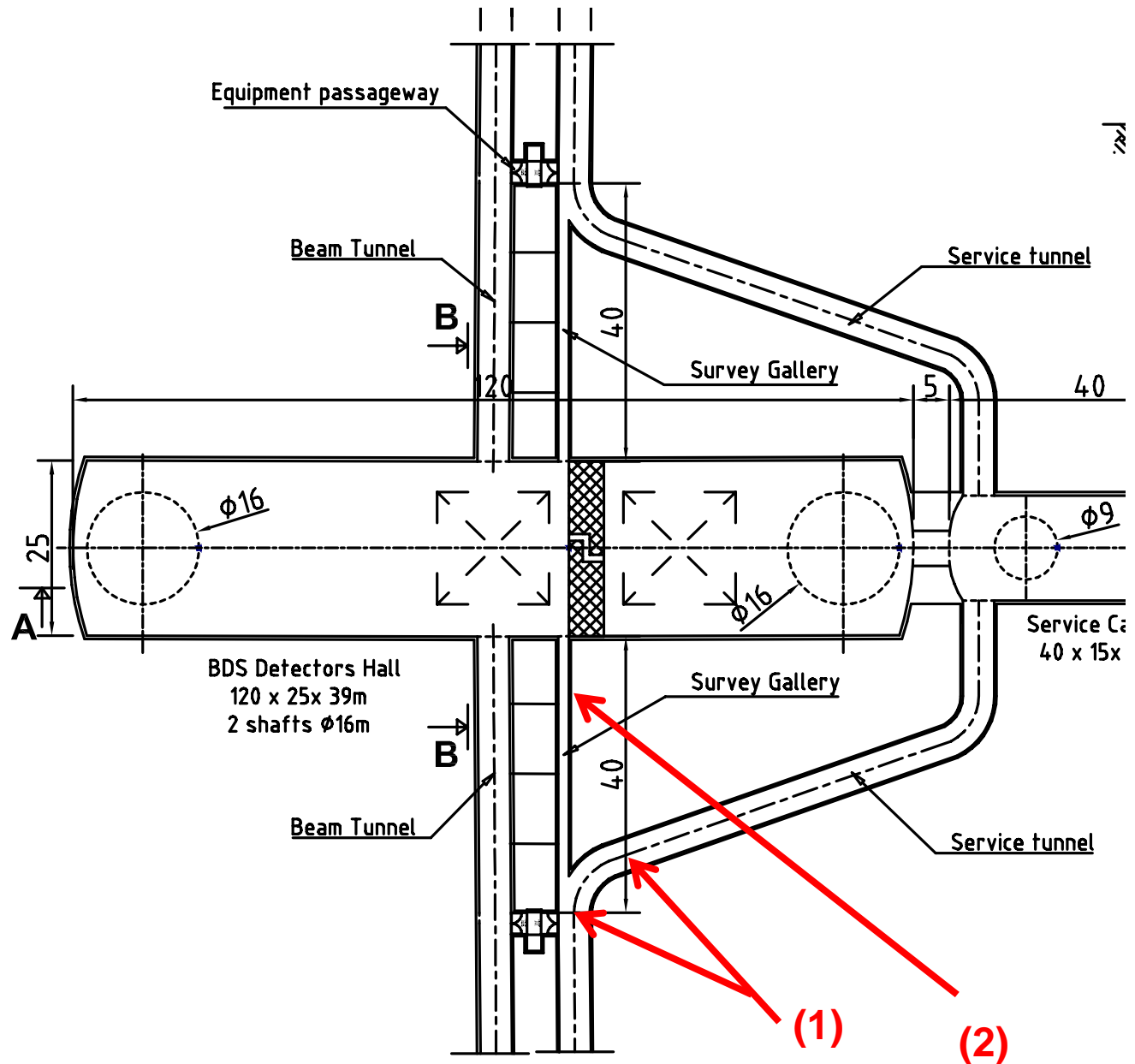


Some slides from IRENG07
preparation meeting with
questions to crab-cavity group

August 27, 2007
Andrei Seryi

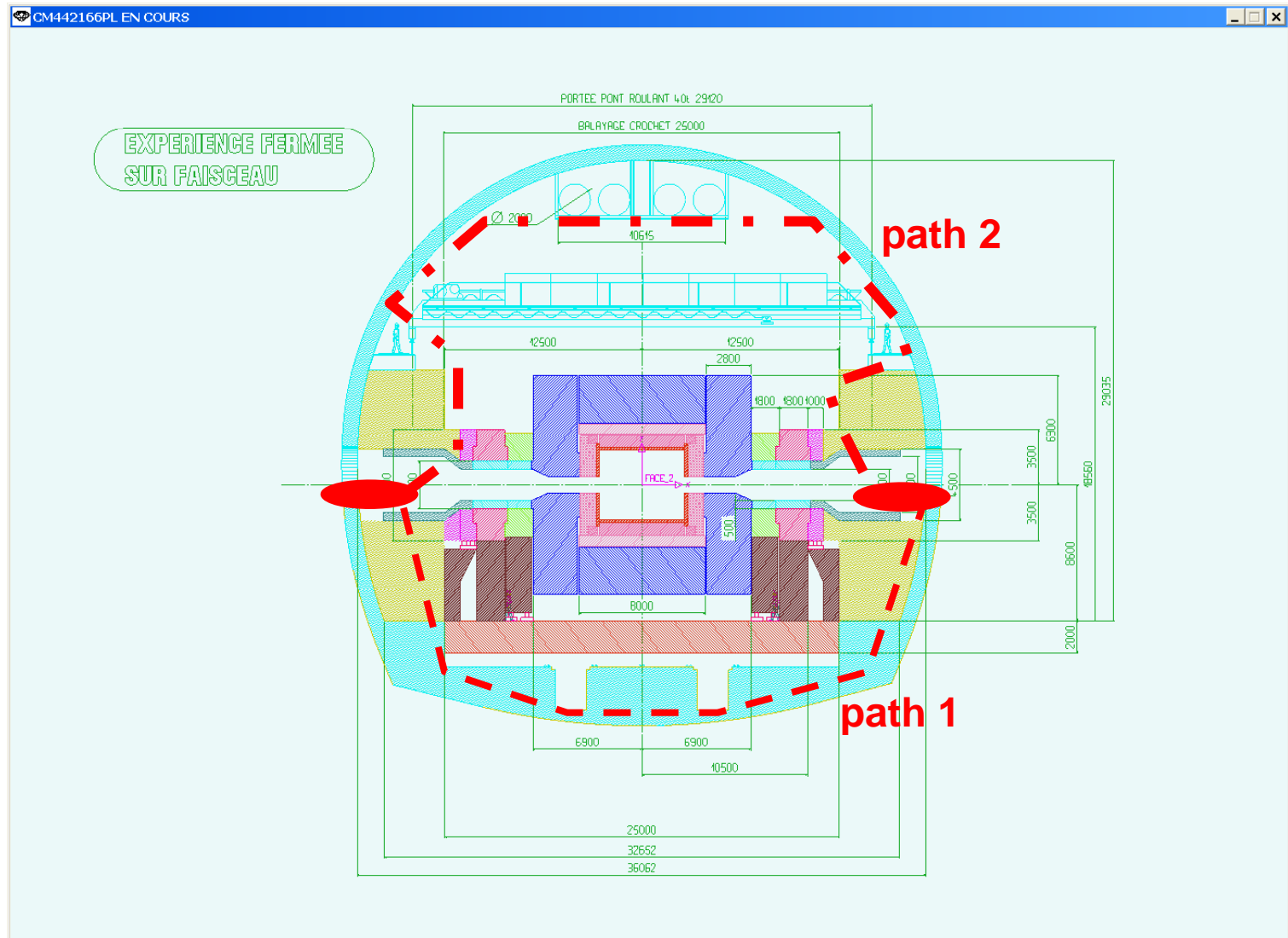
Assuming that “survey gallery” does not exist or blocked due to radiation safety reasons, where should we place the klystrons? Is location (1) good for that?

If (2) can be made accessible, what are the advantages?



picture from J.Osborne

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=2132>



Connections between cavities: some cables, 10cm OD coax, fibers?

Path to have low vibration, T stabilized conduit, decent radiation conditions?

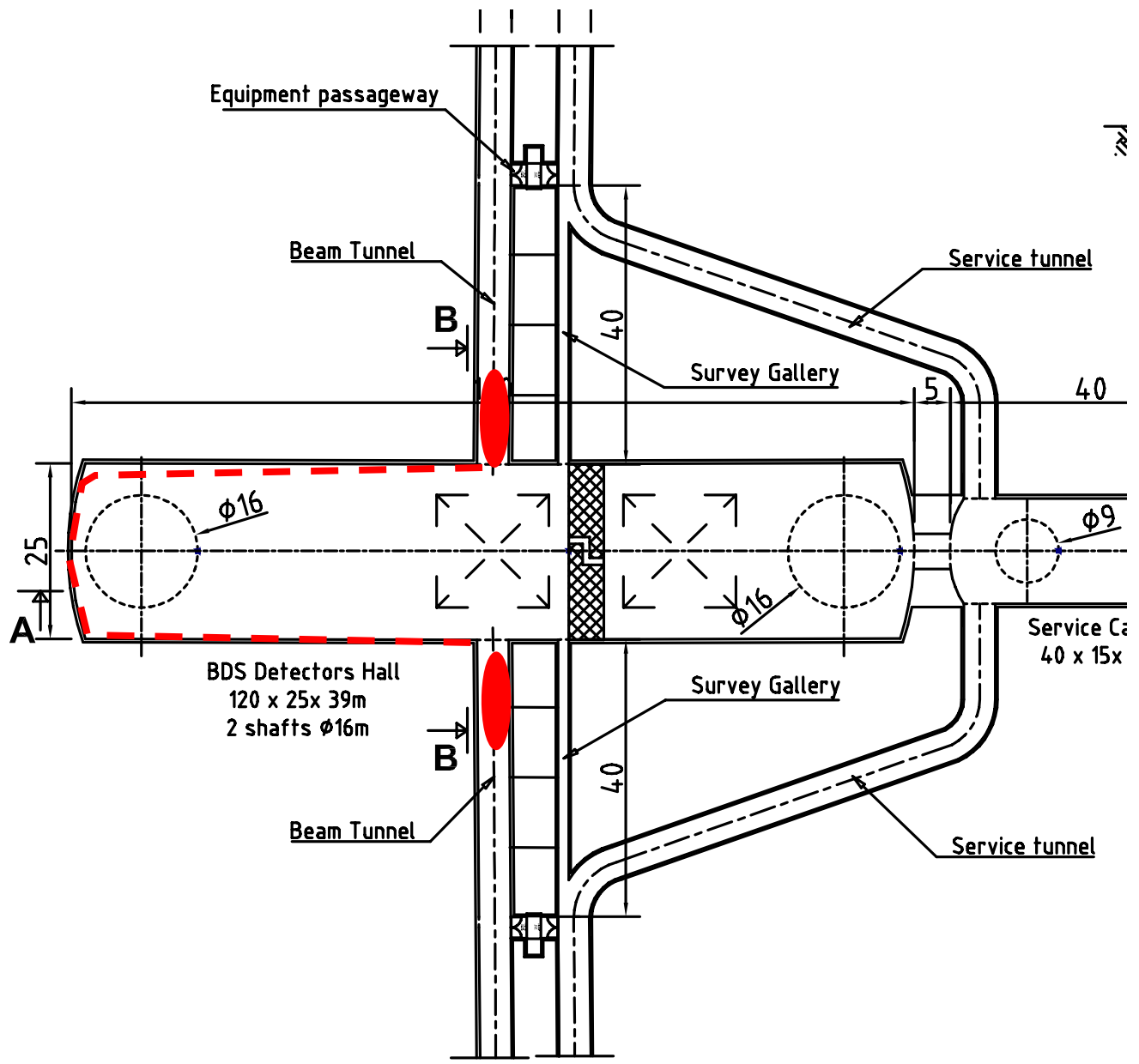
Path 1 easier from vibration issues?

picture from J.Osborne

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=2132>

Path 3: around the hall. Is it possible?

path 3



Slide from Y.Sugimoto,

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=2110>

B-field with packman Fe

- A-part: non-magnetic
- 5 cm thick Fe wall inside the tunnel up to $Z=20.5$ m
- Compensation coil at $Z=21.5$ m
- Magnetic force
 - +65 kN for B and +11 kN for C (“+” means opposite direction to the detector)
 - If A is also magnetic, -200 kN ~ +200 kN depending on the gap: unstable and too much → A should be non-magnetic
- If $B < 50$ G is required only for $|Z| > 11$ m, B should also be non-magnetic

Detector solenoid field in the region of the cavity could be ~50Gs level.

Could it be shielded out?

