

FP420 INFORMAL MEETING
ON A MOVABLE BEAM PIPE
on Wednesday 09/11/05

E. Métral

Meeting organized by Keith Potter

**Invitation to an Informal Meeting with FP420 physicists from Louvain & the UK,
to brainstorm on a moveable beampipe at the LHC**

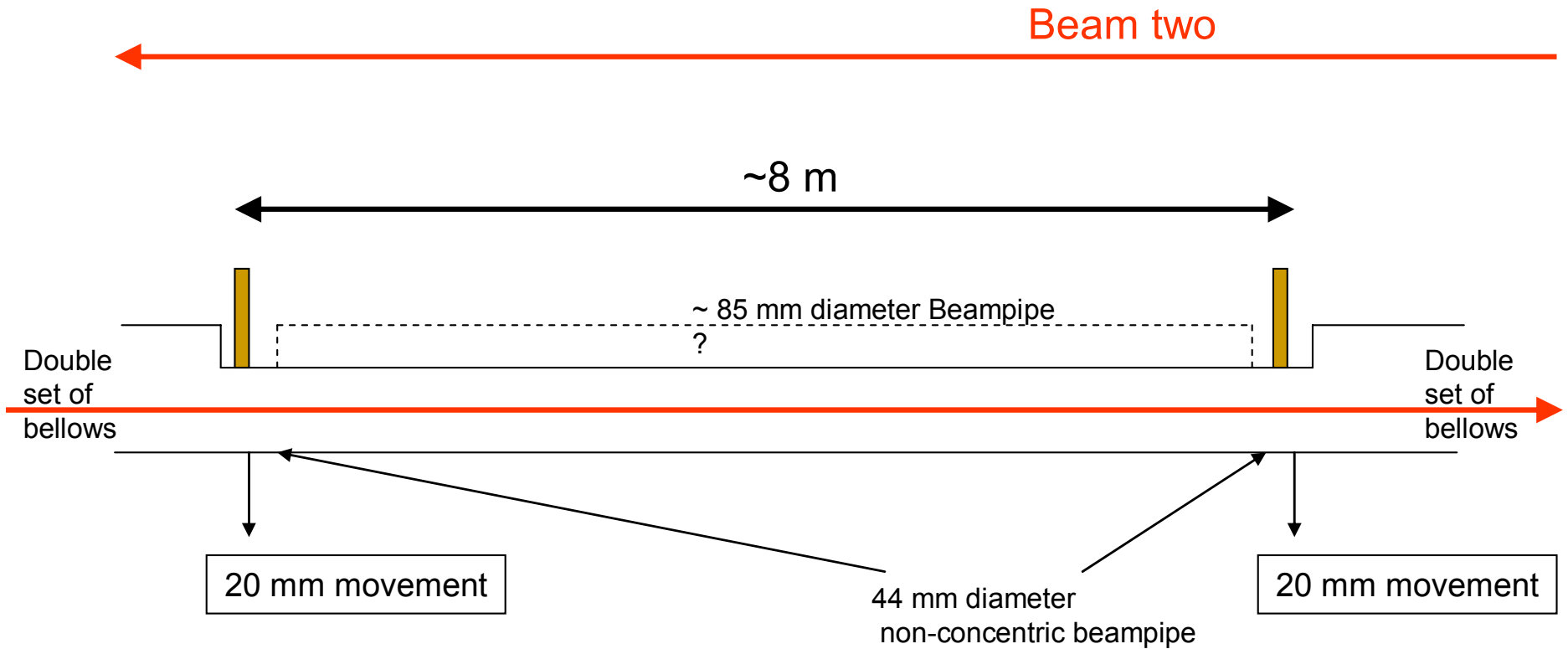
Wednesday 9 November at 09.30 in B530 R-30

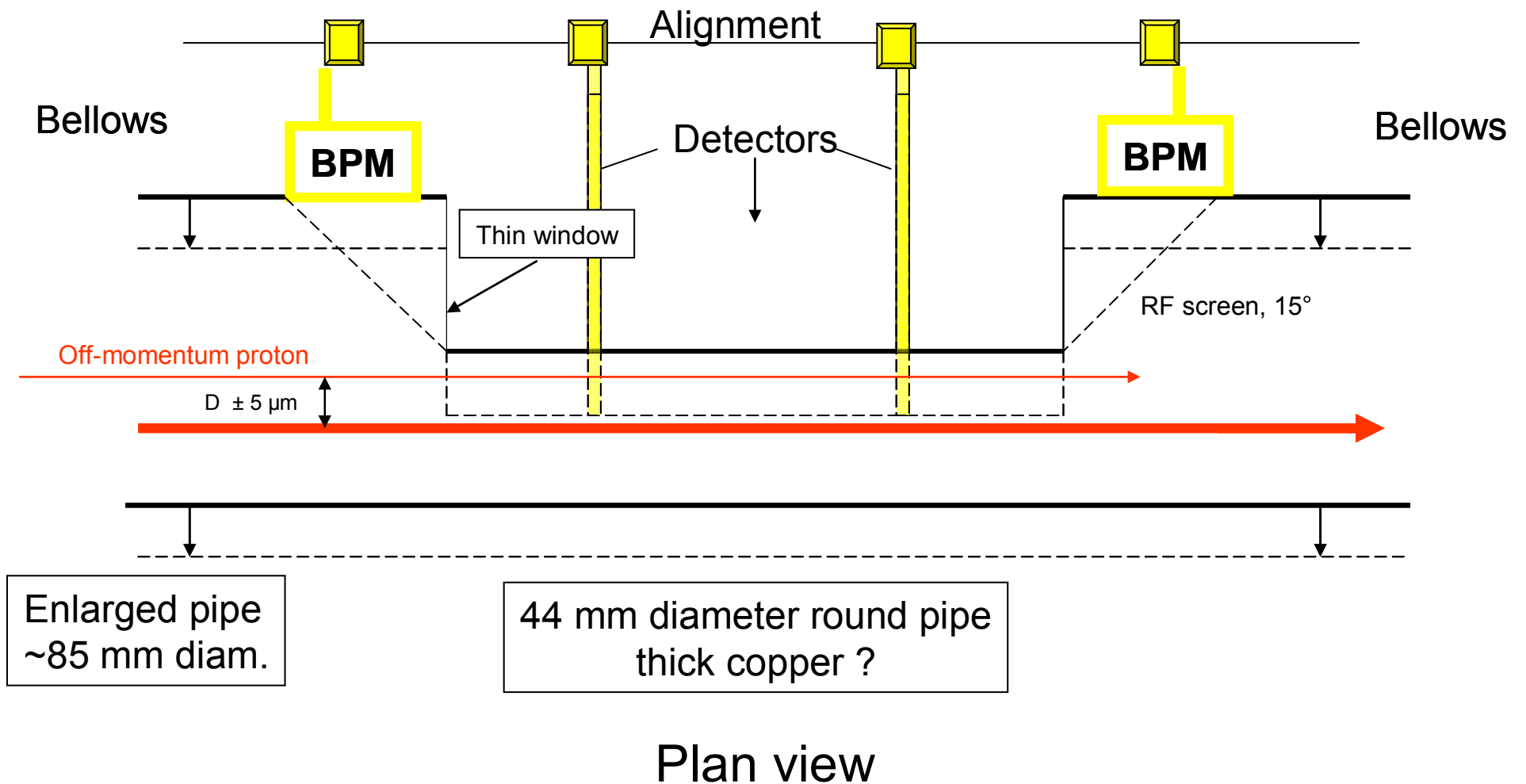
- 09.30** Introduction, K. Piotrkowski & K. Potter
Detector layout
- ~10.00** A second generation cryostat (S. Marque)
Integration into the LHC - Help from TS/LEA. (E. Tsesmelis, D. Macina)
- ~10.30** The 'Hamburg Beampipe' concept, K. Piotrkowski
Mechanical issues (T. Kurtyka)
- ~11.00** Vacuum Issues (C. Rathjen)

- 14.00** **RF Issues (E. Métral)**
Alignment - not to be forgotten (H. Mainaud)
- ~15.00** Suitable High precision BPM's (R. Jones)
Who does what next? - General discussion

Courtesy of K. Potter

FP420 Detector layout



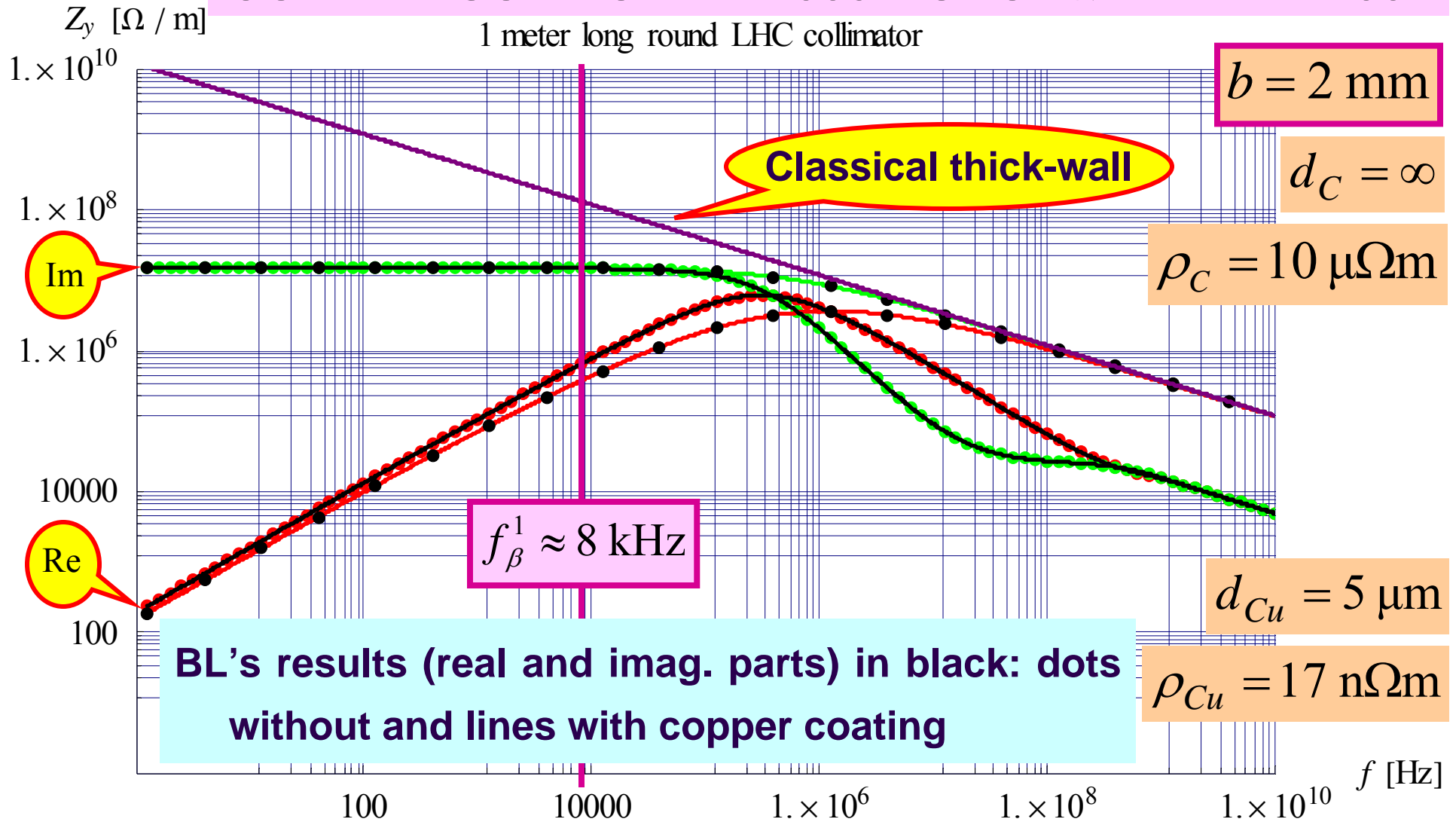


The 3 slides I presented

- ◆ **The RF issues are for the bellows (is there a RF screen to shield the bellows from the beam?) and for the RF contacts**
- ◆ **Tapering \Rightarrow Rule of $\sim 15^\circ$. What is the material of the windows?**
- ◆ **Resistive-wall impedance**
 - **The case of the LHC (2-sided) collimators**
 - **Here it is 1-sided \Rightarrow More studies required**

TRANS. RW IMPEDANCE OF THE LHC COLLIMATORS

COMPARISON ZOTTER2005-BUROV&LEBEDEV2002



IF THIS VACUUM CHAMBER WERE 2-SIDED...

For a 1-meter long beam pipe

