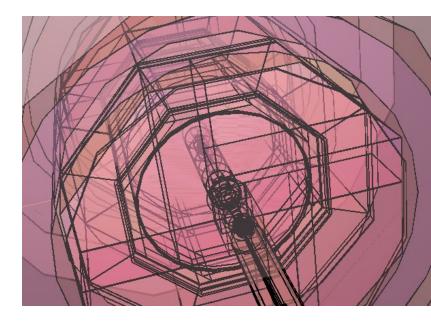
## **Test Beams for tracking/vertexing R&D**

## Some rather obvious remarks

ILC test beam workshop Preparatory meeting 26 May 2009





Marcel Vos (IFIC – U. Valencia/CSIC)

Specific requirements from VXD and silicon tracker collaborations:

Excellent spatial resolution of devices under test.

- Precise telescopes (EUDET, proprietary, or both)
- High-energy beams (CERN NA, rather than DESY)

Magnetic field

• Large-bore high-field magnet available in JRA1?

Large number of collaborations:

Lots of beam time

Test beam periods for R&D on silicon tracking & vertexing during summer 2009 in the CERN SPS North Area (includes LHC upgrade work)

May 18 – june 3: 3DSi May 25 – May 31: MonoPix *June 7 – June 20:* SiTRD *June 18 – June 25:* RD42 June 20 – June 26: ATLAS - gossip June 25 – July 1st: ATLAS diamond CMS Si-Upgrade June 29 – July 13: July 23 – 5 August: EUDET August 5 – August 12: DEPFET Augst 12 – August 19: LCFI August 19 – August 30: SiLC September 7 – Sep 13: ATLAS diamond September 14 - : MediPix September 24 – Oct 1st: *RD42* October 22 - Nov. 4: ATLAS 3DSi November 4 – Nov. 12: MonoPix

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Useful combinations can be (and some indeed has been) made:

- Silicon-TPC (DESY, EUDET MEMO 2007-28) SiLC/HEPHY Viena
- Silicon-alignment system
  SiLC/IFCA
- Full tracker slice (in magnetic field)
- Tracker-Calorimeter (Particle Flow TB)

Requires common DAQ (at some level). EUDET? Requires significant coordination...