











## CMOS chip beam telescope

- Possibility of a totally integrated detector chip (System-On-Chip). Aim is a 20 micron thick, cheap pixel sensor with 1.5 micron accuracy.
- Collaboration with Strassbourg and Aarhus.
- For NA63, testbeams, CLIC....



## Other projects

- Track-trigger for LHC upgrade.
- Cosmic ray stations for use of schools. Three stations mounted at the NBI complex. Dedicated outreach person in Aarhus (Uffe Amelung Petersen) integrates data in HiSparc.
- "High technology" proposal (computer centres in ship containers).

## The NBI Atlas group

- 4 permanent + 1 emeritus (KU financed)
- 8 post doc (Discovery, NICE, Lundbeck, Freja, Steno, Centre for scientific computing)
- 10 PhD (same sources + Bergen university)
- Hope in 2012 to NICE finance: I PhD (Almut Pingel, Higgs in tau hadronic channel - with 1/3 cofinancing from NBI) and I post-doc (NN, hardware projects and track-trigger).

## NBI-ATLAS budget 2012

- Post doc kkr 536
- PhD student kkr 300 (hope 1/3 cofinance)
- Equipment kkr 200 (cut down 35%)
- Travel kkr 864 (cut down 12%)
- M&O kkr 800 (747 in 2011)
- Total is 2696 (17% down from (2009+2010)/2)