

"HLL Project Review"

Thursday 01 October 2009
from 14:00 to 19:00
at Max-Planck-Institut für Physik (**Hörsaal**)

[Thursday 01 October 2009 |](#)

Thursday 01 October 2009

[top](#)↑

14:00 Introduction (15')	S. Bethke
14:15 Projects: MPP (30')	H.-G. Moser
14:45 Technology at the HLL (30')	F. Schopper
15:15	coffee
15:45 Non-Standard Technologies and Interconnections (30')	L Andricek
16:15 Projects: MPE & CFEL (45')	L. Strüder
17:00 Future Silicon Detectors (30')	R. Richter
17:30	Snacks



HLL Project Review

Oct. 1, 2009

Welcome & Introduction

- Purpose of this review:

to keep the management and the scientists of the two institutes (MPE and MPP, who founded and operate this lab) updated about the status of ongoing projects and about the future planning of projects in the HLL

- history and mission of the HLL:
 - founded in 1991, as a common semiconductor development lab of both the MPP and the MPE;
location at Fraunhofer Institute in Pasing (250 m² clean-rooms).
 - mission: research, development, construction and tests of semi-conductor detectors which are needed for the projects of the two institutes which operate the HLL.
- typical projects at MPP:
- precision vertex tracking detectors (ALEPH, ATLAS, sLHC upgrade, BELLE-II, ILC)
 - Si-PM for camera of MAGIC Cerencov telesc.
- typical projects at MPE:
- x-ray cameras for XMM, e-Rosita, XEUS/IXO ...
- n.b.: all these projects are long-term projects (devel. & operation);
current projects will last up to 2020 (devel. & construction).

- in 2001 the HLL moved to a new site on the Siemens plant in Neuperlach, where we (i.e. the MPG) rent a large amount of lab (600 m² class-I clean-rooms) and office space.
- Since 2003, close co-operation with PNSensor GmbH, a company founded by and with personnell out of the HLL. Cooperation agreement between MPG, MPP, MPE and PNSensor regulates and allows
 - sales and marketing of surplus and overrun semiconductor structures (basically Si drift diodes used for x-ray lab detectors)
 - "hiring" of PNSensor expert personnell to participate in institute's projects

PNSensor rents and operates their own office and lab space at Siemens in Neuperlach.

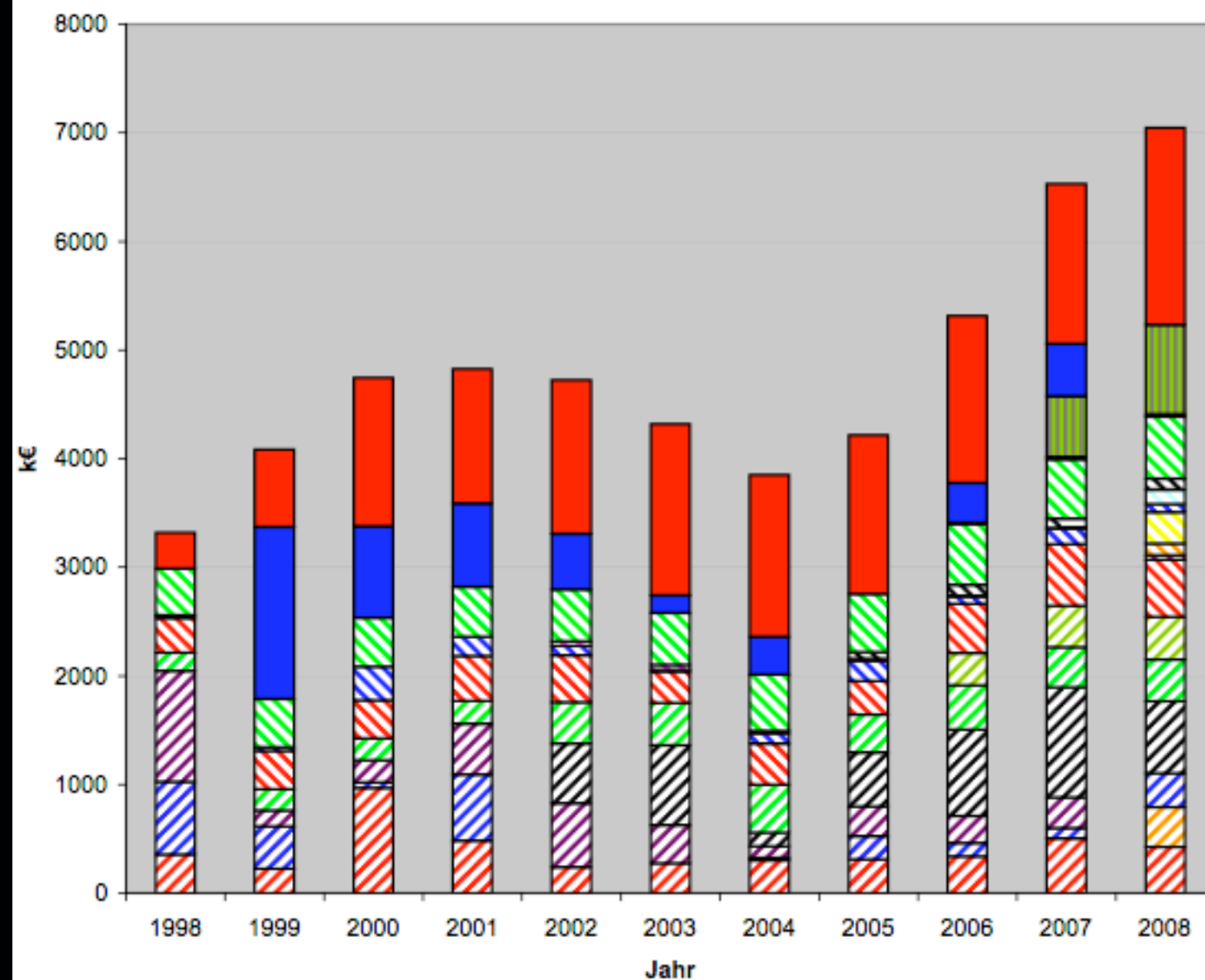
- since 2006: significant x-ray detector developments for material sciences (XFEL; CFEL)

- current stock of personnell (end of 2008):
 - MPP: 13 "Planstellen" (scientists, technicians, admin/secret.)
~4 students, guests, apprentice
 - MPE: 6 "Planstellen" plus 11 positions from 3rd party project funds
~6 students, apprentice
 - PNSensor: ~28 (scientists, technicians, admin)
- management:
 - 2 responsible directors (R. Genzel, MPE S. Bethke, MPP)
 - 2 laboratory heads (L. Strüder, MPE H.G. Moser, MPP)

- finances (2008):

- overall incl. personnell, rent, operation: 7000 kEuro

	MPG	MPP	MPE
- rent, energy	1817	--	--
- basic operation ("Grundbetrieb"), media	--	813	422
- project related and invest	--	357	680
- contracts with PNSensor	--	100	663
- personnell	--	595	777



- Miete/Strom (GV, über HH MPP)
- Invest (GV)
- CFEL Betrieb/Invest/Personal
- Drittmittel (MPP Personal)
- Personal (MPP)
- Verträge PNSensor (MPP)
- Drittmittel (MPP, nur Sach- und Betriebsausgaben)
- Invest (MPP aus Projektmitteln)
- Invest (MPP, ohne zentrale GV Mittel)
- Medienkosten (MPP, nicht von der GV erstattet)
- projektbezogener Betrieb (MPP)
- projektbezogener Betrieb (MPP für MPE Projekte)
- Grundbetrieb (MPP)
- Drittmittel (MPE Personal)
- Personal (MPE)
- Verträge PNSensor (MPE)
- Drittmittel (MPE, nur Sach- und Betriebsausgaben)
- Invest (MPE, ohne zentrale GV Mittel)
- projektbezogener Betrieb (MPE)
- Grundbetrieb (MPE)

