



ASPERA Technology Forum

Photosensors and auxiliary electronics

Date: October 21/22, 2010

Location: Carl Friedrich von Siemens Stiftung, Nymphenburg Castle, Munich

Participants: Technology experts from industry, project scientists, funding agencies

Technological challenges in future Astroparticle Physics projects

European astroparticle physicists are planning the next generation of experiments to be built within the next decade. Success of the projects in direct dark matter detection, low energy neutrino physics, high energy neutrino telescopy, proton decay, neutrino properties, high energy gamma ray and cosmic ray astrophysics as well as gravitational wave detection highly depends on technological challenges and the availability of variety of advanced photosensors in large quantities.

While the total investment for these projects is estimated with 1.5 Billion Euro over the next decade, about 30% of costs will be associated with photosensors. For a thorough planning of all stakeholders it is important to carefully elaborate the timing of the projects and their needs as well as the market availability of key products. The ASPERA Technology Forum shall provide a discussion forum for companies, project scientist and funding agencies to define in future ways of boosting cooperation to the benefit of all stakeholders.

In the discussions of the workshop the following questions shall be addressed:

- What are the requirements of the coming projects concerning photosensors?
- What are the technological challenges?
- What products are available and what kind of R&D activities are required?
- What is the potential of joint research activities?
- Is there an R&D strategy that can be commonly followed by research institutes and SME?
- What is the impact of developments on other scientific fields or market ready products?
- What are the bottlenecks when scientists cooperate with industries, what are the typical wishes of industrial partners and of scientists?

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