

Development Process of Hybrid Photon Counting X-Ray Detectors

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DECTRIS is a technology leader in hybrid photon counting X-Ray detection. The DECTRIS photon counting detectors have transformed basic research at synchrotron light sources, as well as in the laboratory and with industrial X-Ray applications. This pioneering technology is the basis of a broad range of products, all scaled to meet the needs of various applications. The focus of today's talk will be in describing the basic steps of the DECTRIS product development process. The different disciplines involved in this development process will be identified, with particular emphasis on their specific roles and on how they continuously have to interact with each other requiring precise coordination. Furthermore, the basics and the advantages of single-photon counting technology will be discussed. A brief overview of DECTRIS and of the DECTRIS product portfolio will also be presented.

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