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Detector Development for Photon Science at PSI

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The detector group of the Swiss Light Source (SLS) at the Paul Scherrer Institut (PSI) in Switzerland has many years of experience in the development of single photon counting systems like Pilatus, Mythen and Eiger. Due to the startup of the european XFEL and SwissFEL the focus of the SLS detector group moved from photon counting to charge integrating detector systems. The charge integrating systems overcome many limitations of single photon counting systems like count rate, energy range or pixel size. In the talk I will present the charge integrating hybrid pixel detectors Jungfrau and Mönch and first results using them. Mythen3, a new single photon counting microstrip system, will also be presented and compared to Mythen 2.

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