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The 4MPix AGIPD Detector for the SFX User Consortium

For the SPB/SFX instrument at the European X-Ray Free-Electron Laser (XFEL) a 4MPix Adaptive Gain Integrating Pixel Detector (AGIPD) is under development. Its interface electronics is significantly different from the 1MPix AGIPD systems, which have been commissioned at the beam lines SPB and MID at the European XFEL. Digitization will take place in-vacuum directly behind the Front-End-Modules. To keep the electronic components at ambient temperatures in-vacuum, a powerful cooling system is necessary. In addition, it will employ control and DAQ completely based on optical data transmission. The 4MPix AGIPD key concepts will be presented.

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