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Type: **Invited talk**

Detector Development for High Repetition Rate FELs and 4th Generation SR Sources

Friday 30 August 2024 11:00 (20 minutes)

Dedicated detector developments for X-ray photon science have significantly contributed to the scientific success of new photon sources. With the development of 4th generation storage rings and high repetition rate FELs new, more performant, X-ray cameras are needed. I will present the ongoing detector developments at DESY for PETRA IV. TEMPUS is a system based on the new TimePix-4 chip. CoRDIA is an integrating system with adaptive gain, running at 150k fps. I will also present and plans for a new system for the European XFEL.

Presenter: GRAAFSMA, Heinz (DESY)**Session Classification:** Mikrosymposium 4/3: New Detector Developments