

Development of CoRDIA: an Imaging Detector for next-generation Photon Science X-ray Sources

CoRDIA

Ph source upgrades

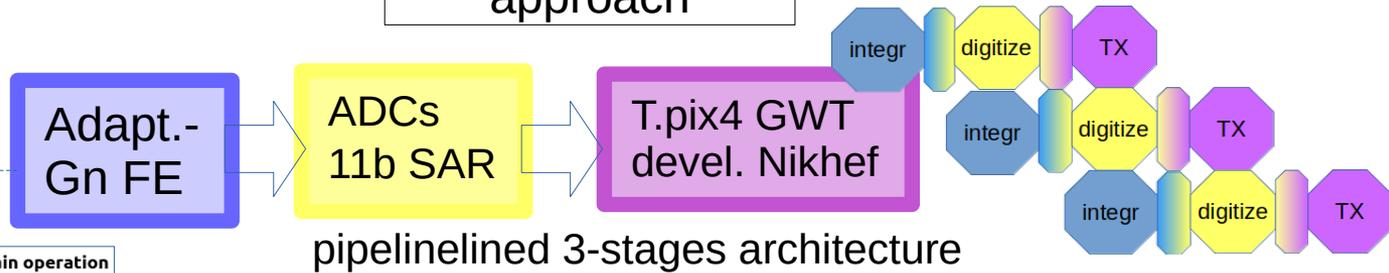


need for imagers:
> 100kHz frame rate
continuous readout

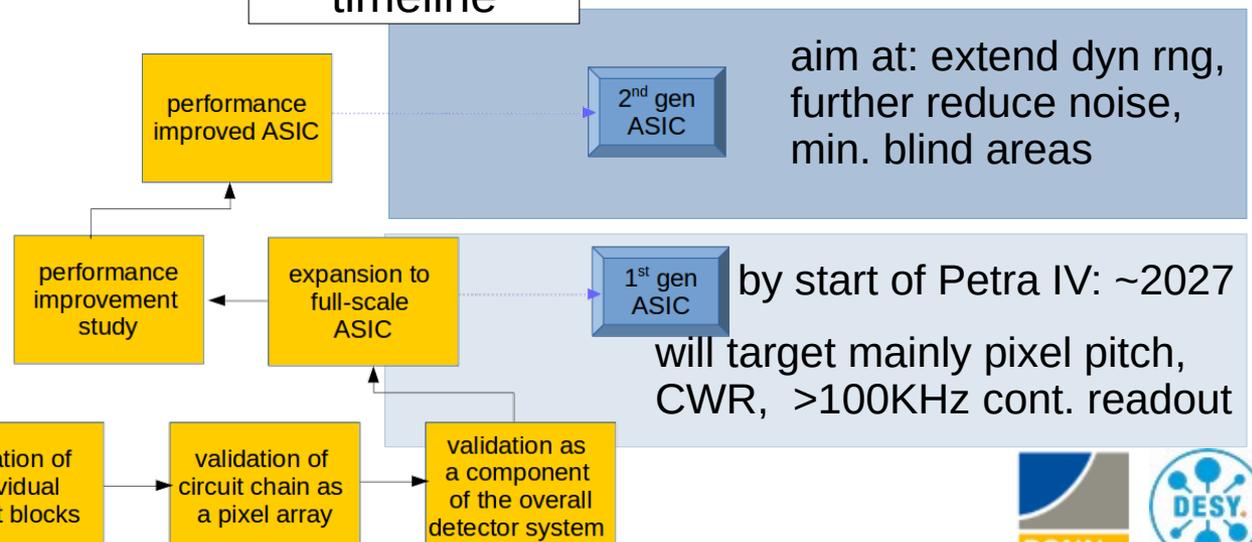
goal

- > 100 kHz, continuous
- 100 μm pixel size
- 1-photon sensitive 12 keV
- 10k ph/pix/img (or more)
- compat. w. HZ & int.-ampl. sensors

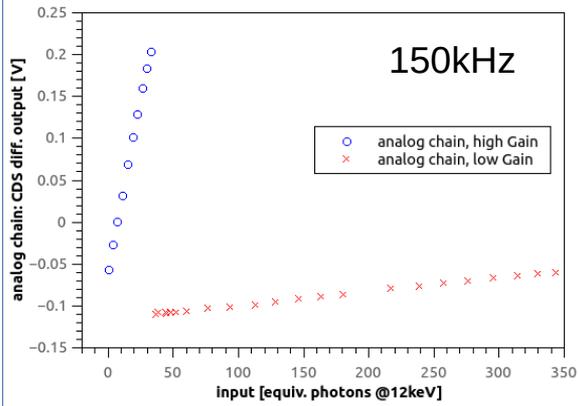
approach



timeline



analog chain (preamplifier + S/H + CDS), Adaptive Gain operation



MPWs (TSMC65)

