Status AGIPD1.0

Pixel:

- new CDS buffer finished
- calibration circuits almost finished
- integration of calibration circuits into Pixel needed

Full chip:

- layout of pad structure done

Status AGIPD1.0

Status AGIPD1.0

Layout of the New Amplifier

Empty space

CDS buffer
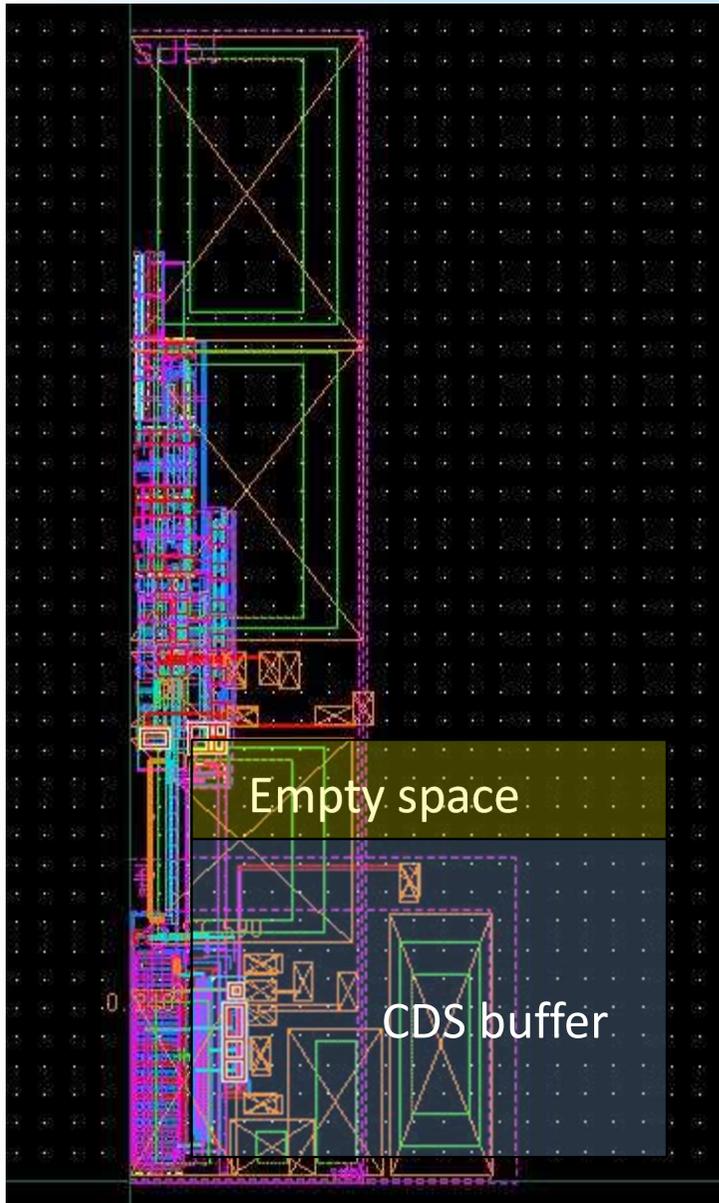
- New CDS opamp
  - 300 mV higher output dynamic range
  - 50% less power consumption
  - Smaller area

- Charge injection of the preamplifier reset switch is significantly reduced.

- A dynamic range of 1 – 10K photons is proved by the simulations

Status AGIPD1.0

Next steps:

- finish pixel, integrate calibration circuit
- Ulrich finish interface
- integrate interface in layout and connect it to pixel matrix

- run all test DRC, LVS

Alessandro: calibration circuit

Ulrich: short update on interface

Dominic: latest test results