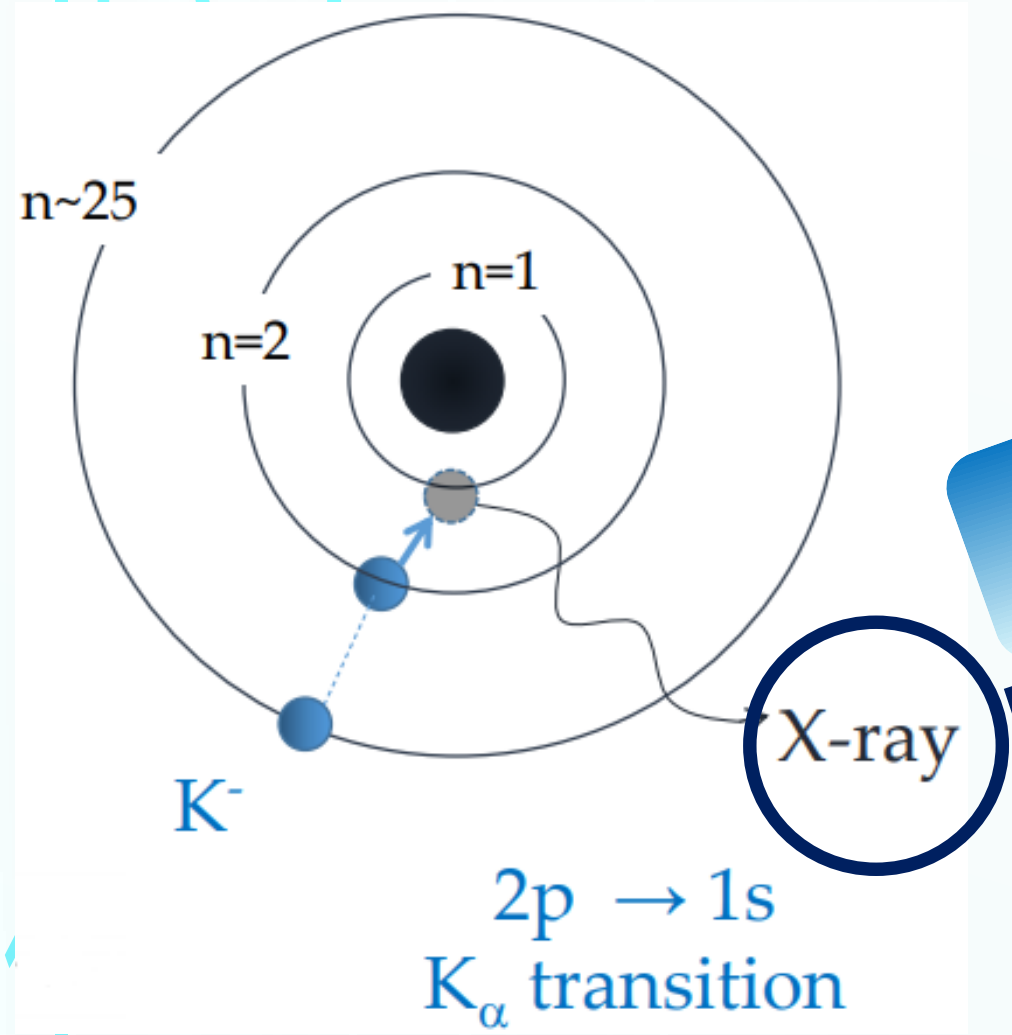


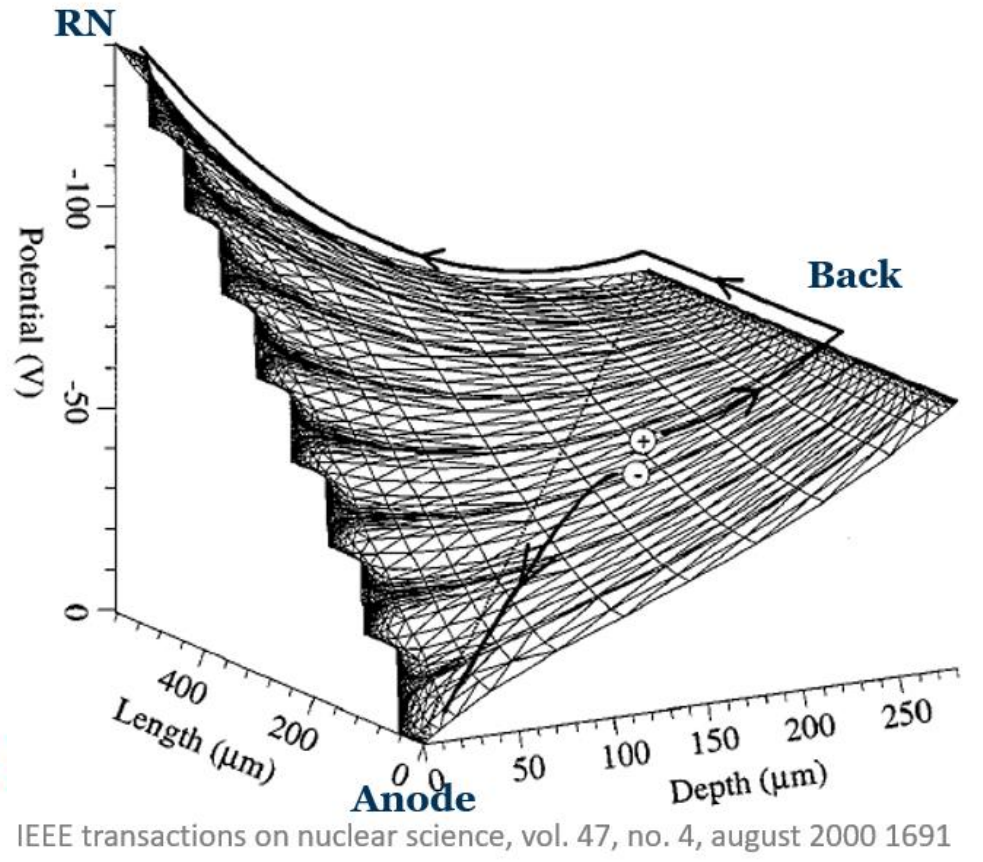
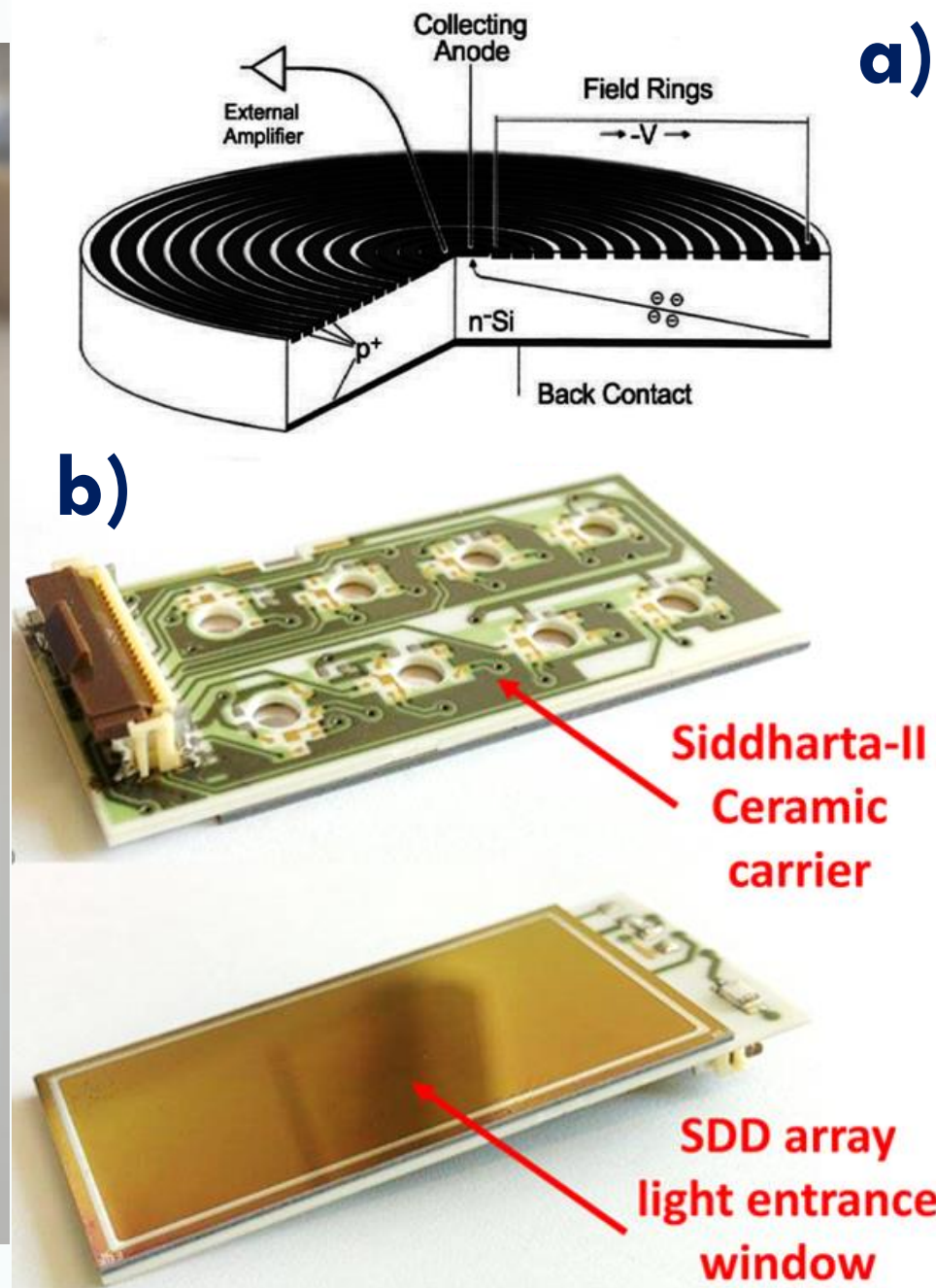
Silicon Drift Detectors technology for high precision spectroscopic measurement at DAFNE collider the SIDDHARTA-2 experiment

Marco Miliucci

(on behalf of SIDDHARTA 2 Collaboration)

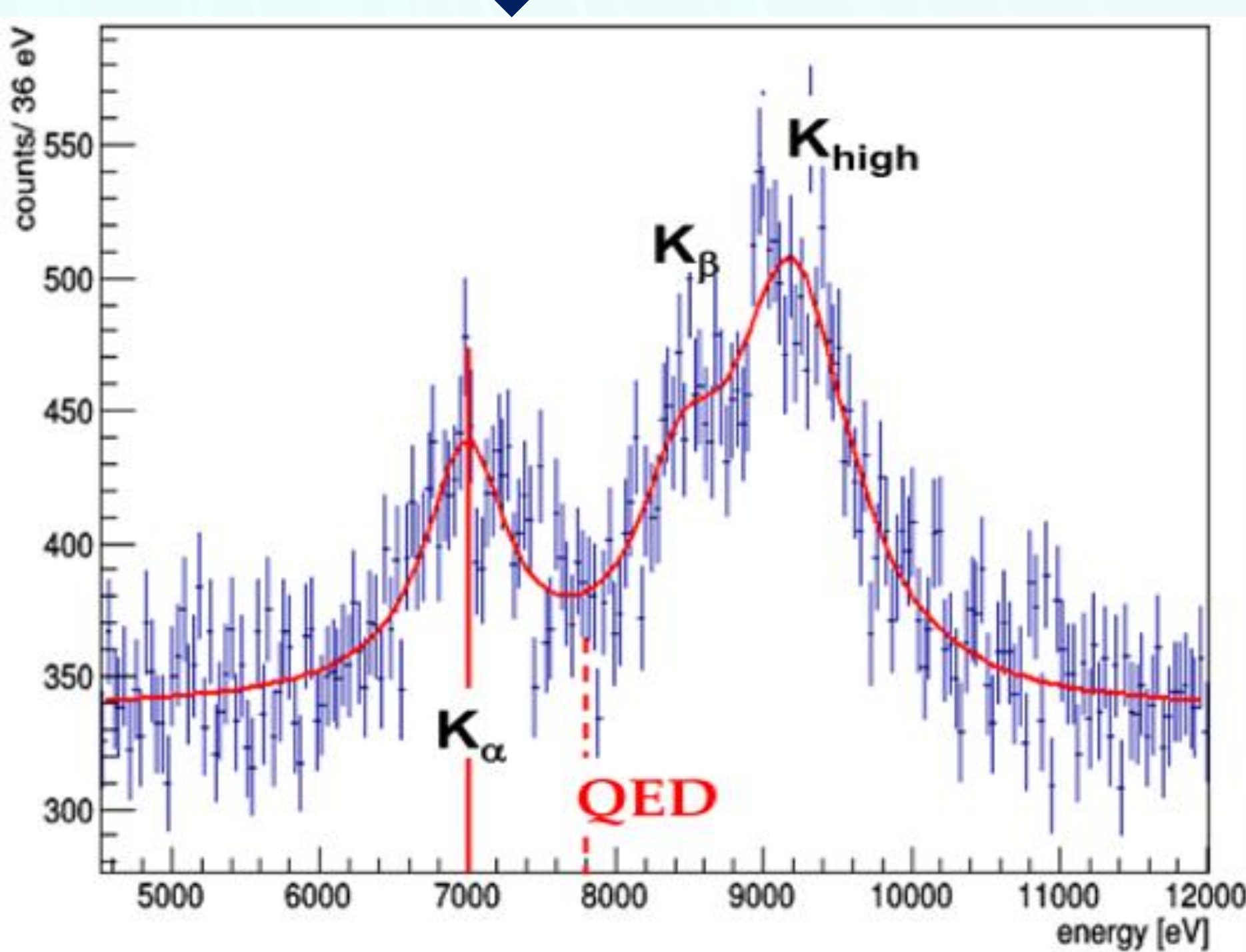
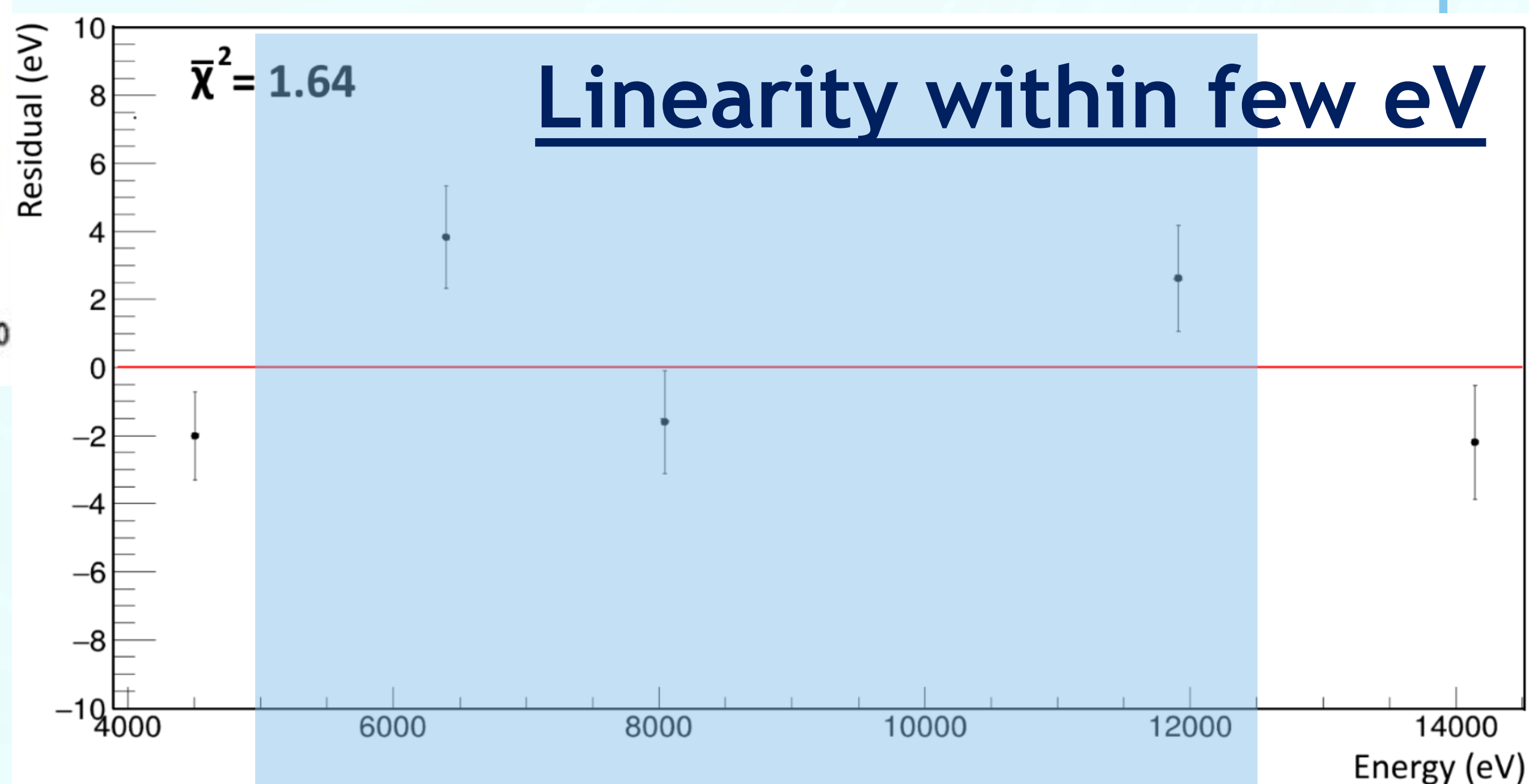
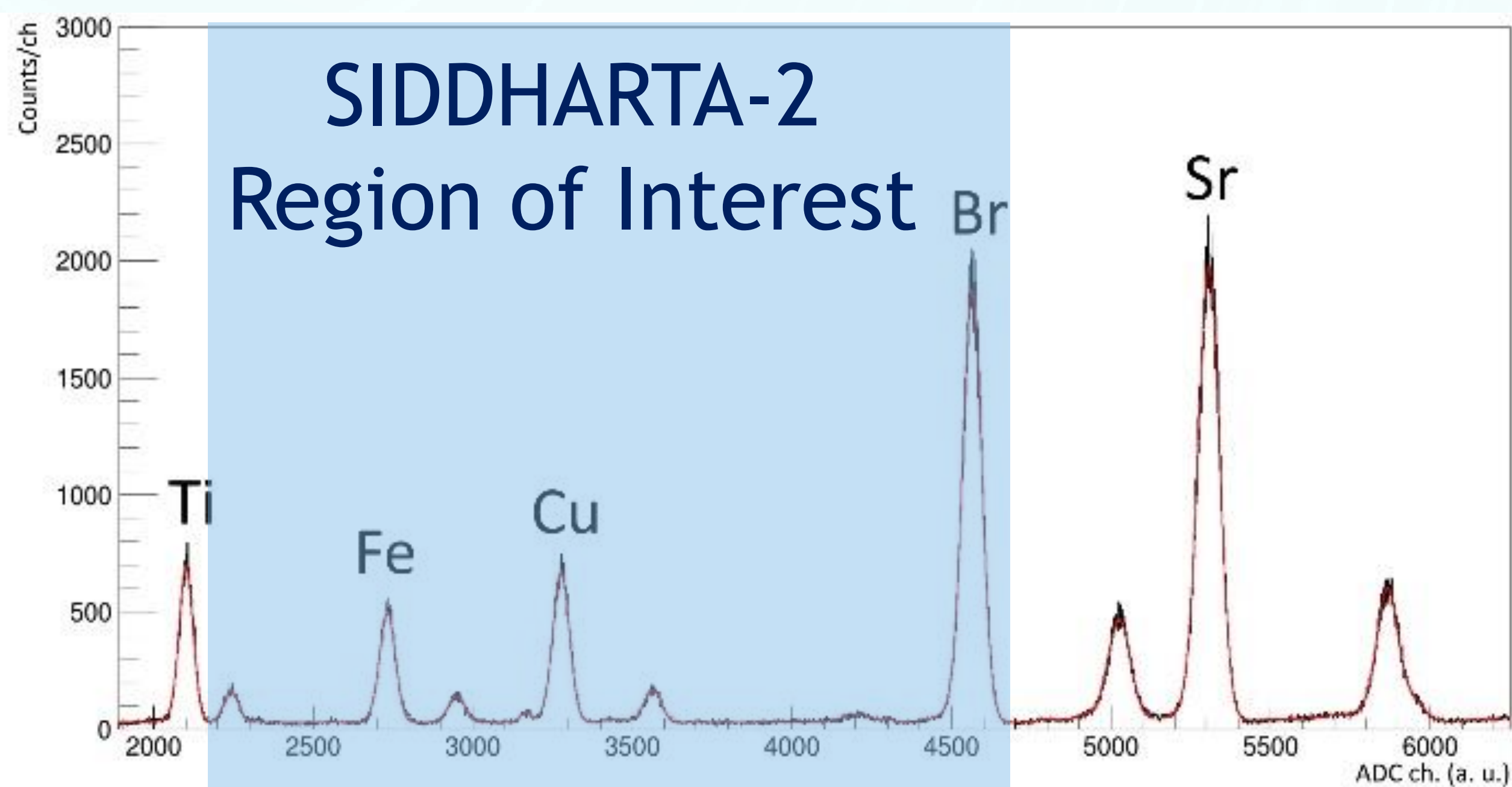
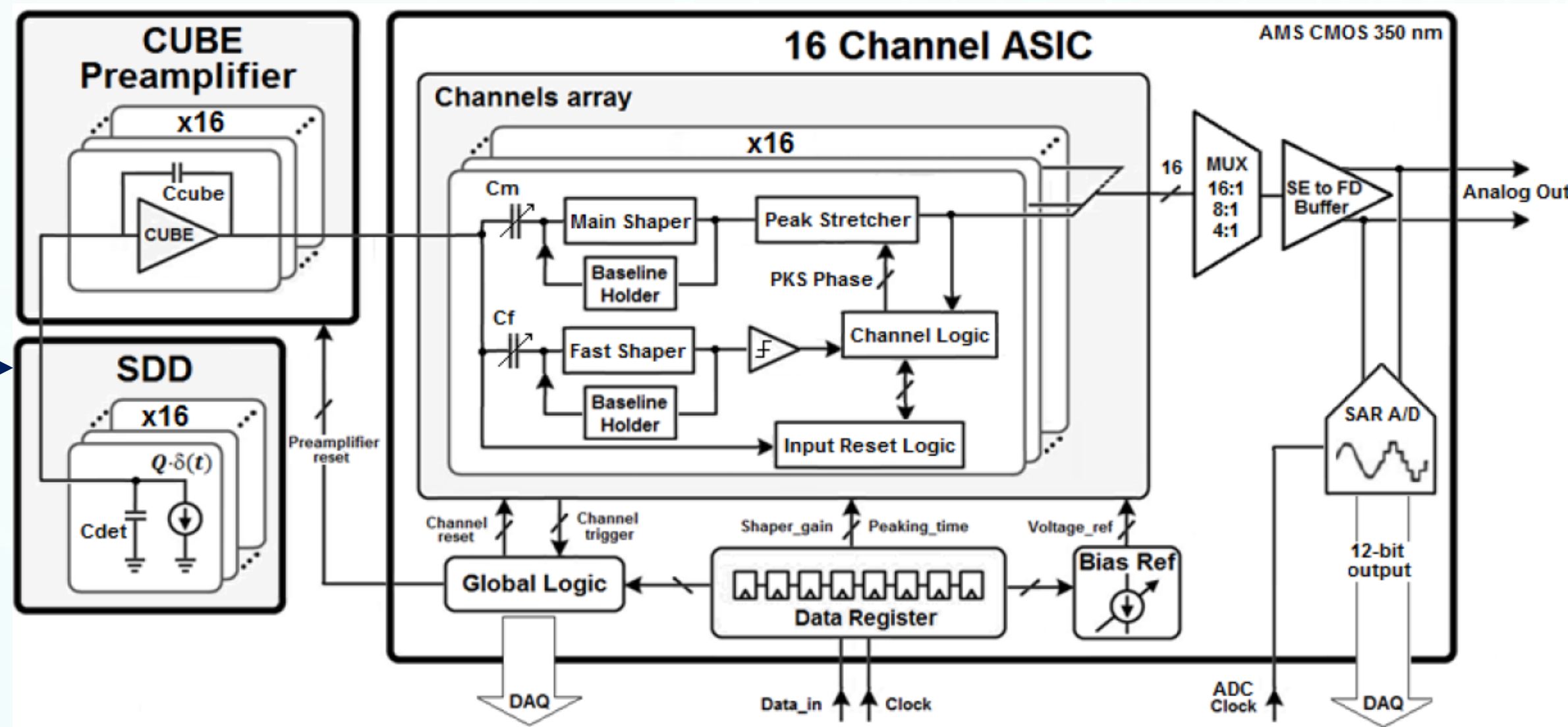


$\approx 8mV$ signals!



a) Scheme of Silicon Drift Detector (left) and drift potential (right)
b) SIDDHARTA SDDs 2x4 array

Kaonic atoms are formed when a negatively charged kaon replaces one of the electrons, placing in an high excited state. Relaxing process occurs via several different processes. Last transitions to the 1s level emits photons in the X-ray region.



Monte Carlo simulation of SIDDHARTA-2 final spectrum