

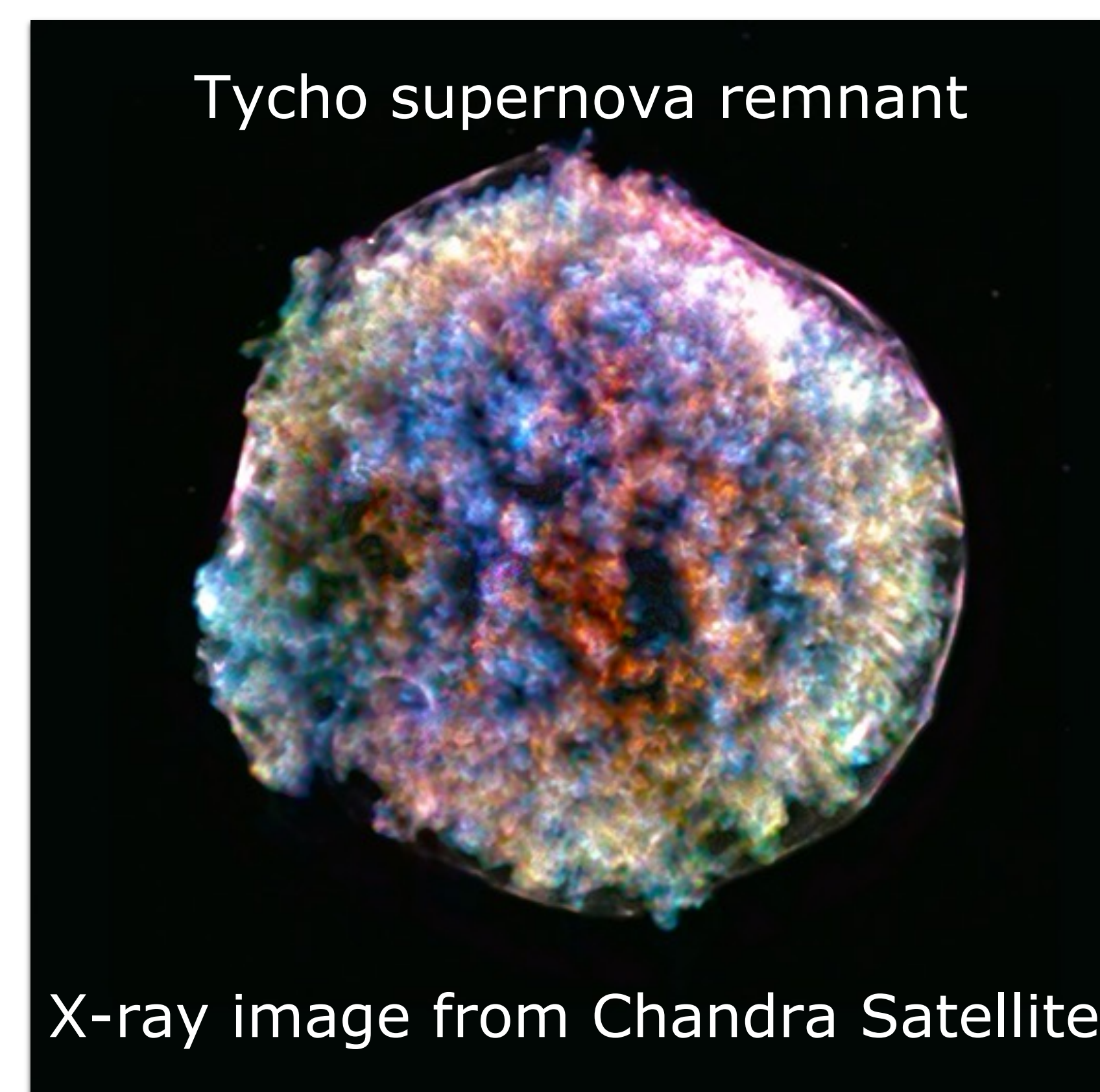


A Superconducting X-ray Camera

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ABOUT ME

- Physics Major (Junior)
 - Concentration on quantum science
 - Minor in Electrical Engineering
- Career Goals:
 - Ph.D. in Physics
- Why LLNL?
 - Exciting research
 - Interesting applications
- Photo of my interests:



SUMMER RESEARCH

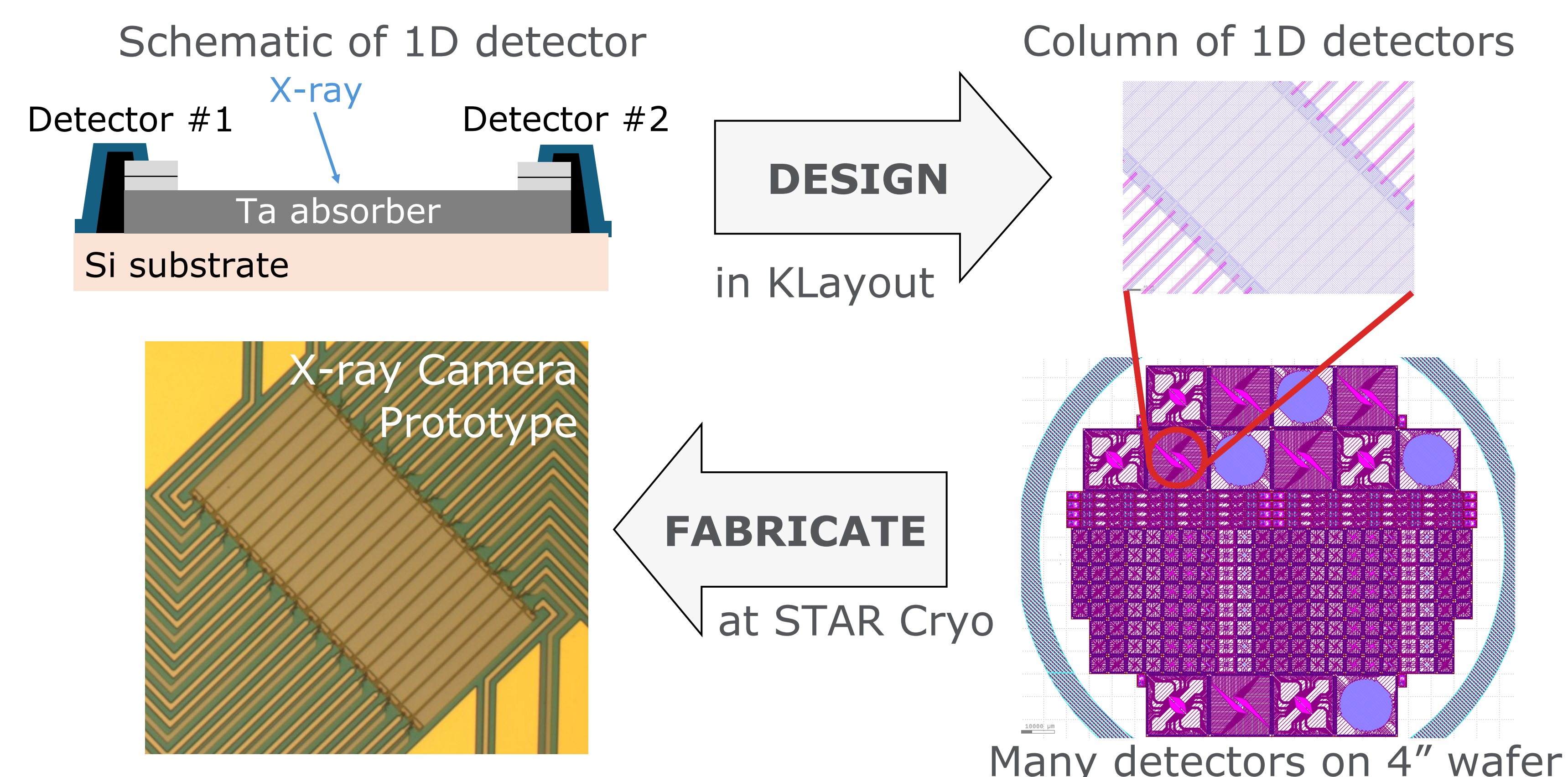
Goal: A camera for X-ray astronomy with very high energy resolution

Approach: X-ray absorber film with two superconducting detectors

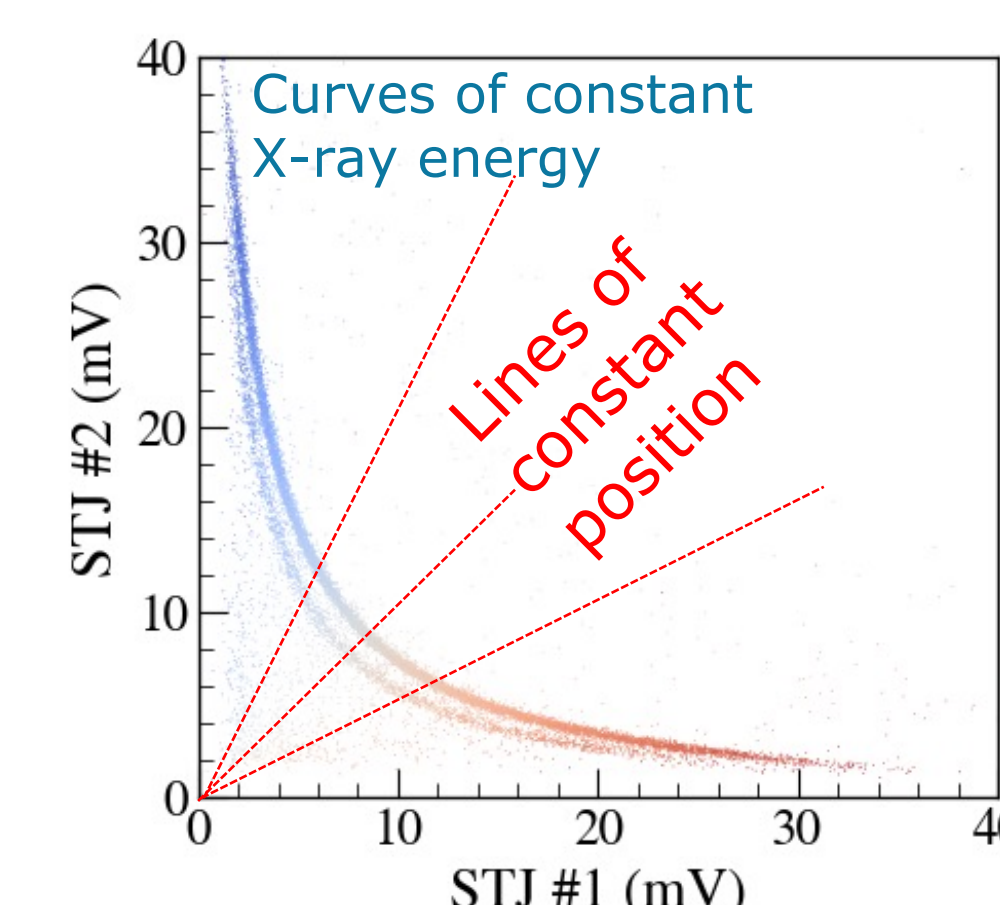
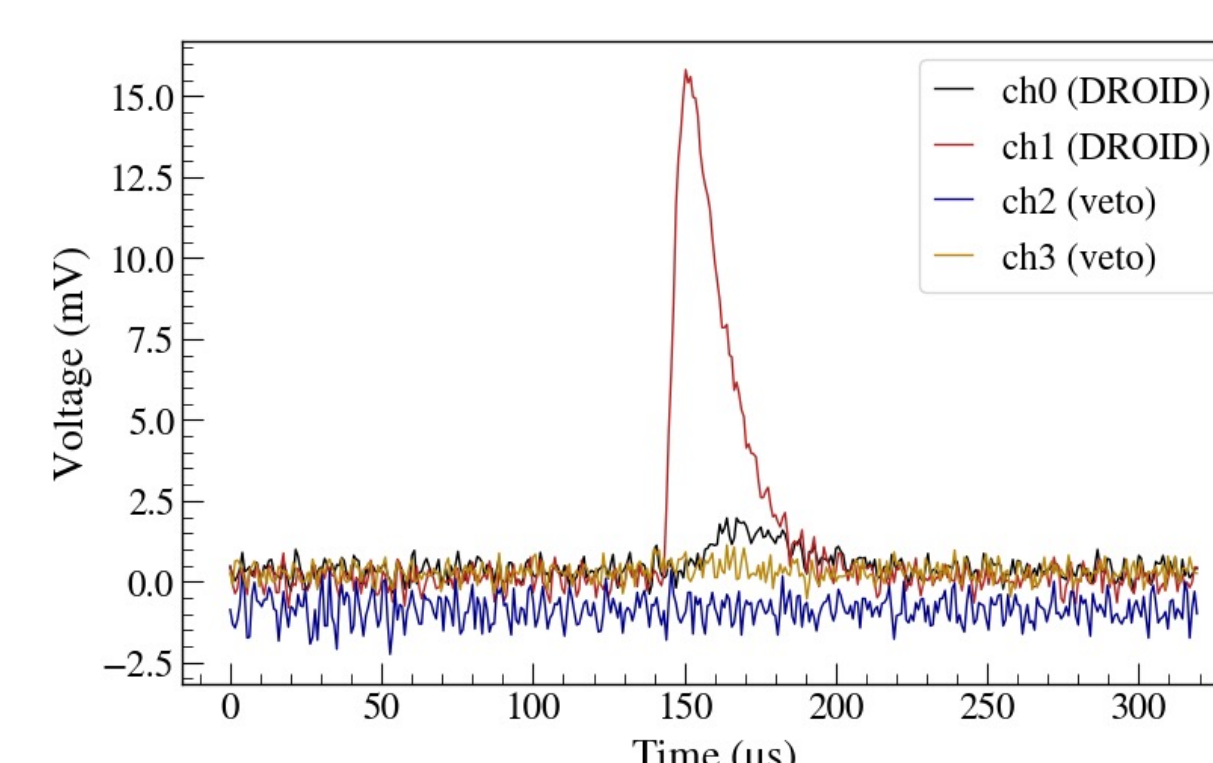
⇒ Each X-ray produces two signals, one in each detector

Sum of signals provides X-ray energy, their ratio the absorption location

Superconducting detectors provide very high energy resolution



Results: It works! (Although not yet perfectly)



LLF AWARD



- Covers my living expenses while working at the lab
- Allows me to gain valuable experience for a career in experimental physics.

Outlook: Ph.D. in physics



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