Cryogenic optical and particle detectors

- Superconducting Tungsten thin film ultrasensitive thermometers (transition-edge-sensors (TESs)).
- Quanta absorbed in W film (optical detectors) or 1 cm thick Si or Ge substrates (particle detectors):
  - A decade long research program conducted at CIS/SNF.
  - Detectors utilized by 40-member collaboration housed at 10 institutes.
- Array of sensors on 1 cm thick substrate ->

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