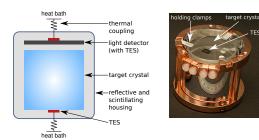
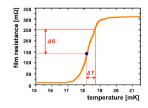
Phonon-Light Detectors for the CRESST Dark Matter search Anja Tanzke on behalf of the CRESST collaboration

CRESST: Direct detection of Dark Matter in the form of WIMPs

- Scintillating CaWO₄ crystals as target material
 - \rightarrow energy depositions excite phonons \rightarrow Phonon detectors
- \blacksquare Detection of scintillation light with separate light detector \rightarrow allows particle discrimination
- Signals measured with transition edge sensors (TES) consisting of a thin tungsten film





Phonon-Light Detectors for the CRESST Dark Matter search Anja Tanzke on behalf of the CRESST collaboration

- Data of phonon detector of the the current data-taking phase
 - energy resolution: 0.090 keV at 2.6 keV
 - threshold: 0.60 keV
- New small phonon detectors will be optimized to enhance the sensitivity for low mass WIMPS

 \rightarrow more sensitivity with a lower threshold of ${<}0.1\,{\rm keV}$

