

THE SQUID READOUT SYSTEM FOR THE CRESST DARK MATTER SEARCH

S. A. Henry*

Department of Physics, University of Oxford, United Kingdom

The CRESST experiment is a dark matter search aiming to directly detect the elastic scattering of WIMPs (Weakly Interacting Massive Particles) off atomic nuclei. The project is now entering its second phase using 10kg of absorber. By detecting both the light and phonons produced by an event we can reject a large fraction of the background radiation. The detectors are read out using a 66 channel SQUID (Superconducting Quantum Interference Device) system provided by Oxford University.

* Corresponding author: e-mail: sam.henry@physics.org