

SRON Background rate of X-ray TES micro-calorimeter arrays for elusive particle search experiments



D. Vaccaro¹, L. Gottardi¹, H. Akamatsu¹, K. Nagayoshi¹, E. Taralli¹, J. van der Kuur², M. de Wit¹, K. Ravensberg¹, J.-R. Gao^{1,3}, J.W.A. den Herder^{1,4}

[1] NWO-I/SRON Netherlands Institute for Space Research, 2333 CA Leiden, The Netherlands, [2] NWO-I/SRON Netherlands Institute for Space Research, 9747 AD Groningen, The Netherlands

[3] Optics Group, Delft University of Technology, Delft, 2628 CJ, The Netherlands, [4] Universiteit van Amsterdam, Science Park 904, 1090GE, Amsterdam, The Netherlands

- (A) Experimental setup (TES array + FDM readout)
- (B) Theoretical solar axion spectrum
- (C) Optimal filter fit spectrum of calibration sources
- (D) Measured X-ray background rates

