The Calibration of the CLARA Radiometer

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The Compact and Lightweight Absolute Radiometer, CLARA, will be launched in April 2016 on the Norwegian NORSAT-1 mission. CLARA is an electrical substitution radiometer for TSI measurements. It is based on a new design with three cavities to offer built-in redundancy and degradation tracking capability while minimizing size and weight. The CLARA flight spare instrument has recently been characterized and calibrated against the World Radiometric Reference (WRR) in Davos, Switzerland and the TSI Radiometer Facility (TRF) at LASP in Boulder, CO. The flight model is planned to be calibrated in September. We will present the results of the characterization and calibration experiments.