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**The quantification of corona discharges on high voltage electrical
equipment in the UV spectrum using a corona camera**

N.Maistry, RA. Schutz and E.Cox

Materials Science & Technology, Sensor Science & Technology, Council for Scientific and
Industrial Research (CSIR)

Abstract

The current power line fault detection equipment can only locate a fault by detecting corona and heat radiated by the faults. This equipment cannot quantify the ultraviolet (UV) radiation of the fault in radiometric dimensions (W/cm^2). The CSIR has developed the first radiometric technology camera platform in both the UV and IR spectrums ("QUVIR") in order to quantify power line faults. This paper will provide a brief description on the new UV quantification algorithm.