

Instrumentation developments in DC spark setups at CLIC

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DC spark systems are used at the CLIC group at CERN to study electrical breakdown in vacuum. Recent instrumentation developments are presented. Capacitive gap distance measurement has been implemented to allow non-contact setting and feedback control of gap distance. Temperature control has been implemented to allow for the study of the effect of temperature on breakdown rate. Optical spectroscopy has been added to allow for plasma characterization.

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