



Contribution ID: 19

Type: **Presentation**

## Electrical characterization of an Ar<sup>2\*</sup> excimer lamp excited by a dielectric barrier discharge

A bipolar pulsed high voltage and high frequency power supply has been developed to excite a dielectric barrier discharge excimer lamp. Voltage and current signals across the 5 mm electrode gap have been measured. Energy through the gas per pulse has been obtained by integrating the power applied. About 300  $\mu\text{J}$  of energy per pulse is delivered to the gas.

**Primary author:** Mr BARICHOLO, Peter (National University of Science and Technology, Stellenbosch University)

**Co-authors:** Prof. VON BERGMANN, Hubertus M. (laser Research institute, University of Stellenbosch); Mr STEHMANN, Timo (laser Research institute, University of Stellenbosch)

**Presenter:** Mr BARICHOLO, Peter (National University of Science and Technology, Stellenbosch University)

**Track Classification:** Track C - Lasers, Optics and Spectroscopy