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## 3P12 - One-dimensional Numerical Simulation on Nanosecond Pulsed Discharge

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A one dimensional model for nanosecond pulse non-equilibrium plasma discharge is developed. A numerical simulation has been done for nanosecond high voltage pulse DBD air discharge. The evolution and distribution of component parameters, electrical parameters for air discharge has been investigated. It is found that the sheath layer effects the electrical field distribution, the voltage and electron energy. The discharge parameters are non-uniform between electrodes.

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