



Софийски университет „Св. Климент Охридски“
Физически факултет

ФАКУЛТЕТЕН СЕМИНАР

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Prof. RNDr. David Trunec

Masarik University, Brno, Czech Republic

Diffuse barrier discharges at atmospheric pressure and their applications

The diffuse (homogenous) dielectric barrier discharges (DBD) are special type of DBD, which usually burn in filamentary (non-homogenous) form. These diffuse discharges can be generated at certain conditions (e.g. working gas, voltage and frequency of power supply) and they are suitable for technological application. In the lecture, the mechanisms and conditions leading to diffuse dielectric barrier discharges will be discussed and the diagnostics of the discharges will be presented. Also several technological applications of these discharges will be presented.