## **S1-P.59** Conditions for Plasma Obtaining in the Gaseous Media and its Application in Nanotechnology

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The conditions for electrical discharge plasma obtaining in the gaseous media, as well as its application in different fields of nanotechnologies are analyzed in this paper. Plasma obtaining under the investigated conditions avoids the use of auxiliary equipment for preventive ionization of the active media, which does not require synchronization between the base discharge and the moment when the ionization in the gap is maximal. As a result of the interaction of acquired plasma with different material surfaces the structures of nanometer order were obtained, and the plasma itself can be applied at the construction of quantum generators in non-aggressive gaseous media, as well as at the sterilization of objects in medicine.