

Abstract Submitted
for the GEC16 Meeting of
The American Physical Society

Registration of RF Plasma Radiation in Ultra-Violet Range by Solar-blind Photoreceptor SHI NGUYEN-KUOK¹, YURY MALAKHOV², IVAN KOROTKIKH³, None — A spectrum response of a photoreceptor to the RF plasma radiation is determined in the present work by means of a spectrophotometer utilizing a gas-filled photoreceptor. A continuous radiation spectrum was observed in the wavelength interval of 190 – 270 nm. The photoreceptor allows measuring of absolute radiation taking into account the spectral sensitivity of the photoreceptor and the values of quantum output for the given wavelength. A continuous spectrum was observed in all three orders of magnitude of diffraction. Develop and test a technique for measuring the intensity of the plasma radiation in the UV wavelength range measured amount of discharge pulses can be used to determine the spectral sensitivity range of UV radiation receivers.

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Date submitted: 10 Jun 2016

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