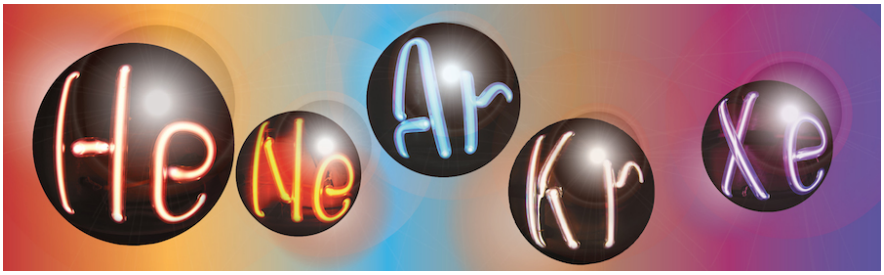

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Development of a Pulsed VUV Light Source With Adjustable Intensity

Friday, 17 September 2021 11:30 (15 minutes)

Precise characterization of photodetectors sensitive to vacuum ultraviolet (VUV) require a calibration source able to:i) produce and transmit photons in the VUV (128nm - 200nm), ii) control the light intensity and reliably obtain single photon transmission, iii) produce a pulsed photon emission so as to correlate the source with the VUV readout.In this talk, we will present the development of gas based pulsed spark. This source emits VUV light in the range produced by noble element detectors and is coupled with a gas based attenuator capable of delivering single photon intensities to the device under test. We will present the first data taken with this device as well as highlight some of its recent applications in the development of novel VUV photon detectors.

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