

## IEEE NPSS School of Application of Radiation Instrumentation Dakar -Senegal



Contribution ID: 10

Type: **not specified**

### Semiconductor detectors for dosimetry in photon radiotherapy

*Tuesday 15 November 2022 09:45 (45 minutes)*

In this lecture I will explore fundamental principles behind operation of the different semiconductor radiation detectors for medical dosimetry, their advantages and disadvantages .

I will discuss the state-of-the-arts of semiconductor dosimetry based on recent development with example of their applications in contemporary X-ray therapy including External Beam Radiotherapy and Brachytherapy. Special attention will be put for high spatial resolution dosimetry of small radiation fields.

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