

# **Perovskite thin film detectors for high energy photons and particle at the University of Bologna**

*Thursday 20 July 2023 09:00 (30 minutes)*

The research on perovskite radiation detectors at the University of Bologna is focused on thin film devices for the direct detection of radiation. We investigate the interaction between thin films and high energy photons and protons and we explore the best device geometries and fabrication process that allow scalability over large area and onto flexible substrates.

I will discuss the major goals we are targeting and the open issues we are presently facing in the development of detectors based on 2D, 2D/3D and polymer/3D perovskite blends with the aim to maximize their sensitivity, limit of detection and stability in time.

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**Session Classification:** Session 1