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## Radiation Detectors: Imaging What You Cannot See

*Tuesday 2 July 2024 11:00 (45 minutes)*

### Abstract

In an age where technological advancements push the boundaries of what we can observe and measure, radiation detectors stand at the forefront of innovation, enabling us to image the invisible. This talk explores the world of radiation detection technology. It will briefly explore the fundamental principles behind radiation detectors, their design, their historic role in fundamental discoveries, and their diverse applications across various fields. From medical and biological imaging that revolutionizes diagnostic capabilities to fundamental scientific research that unravels the mysteries of the universe to harvesting sustainable energy using the power of the sun, radiation detectors are indispensable tools in modern science and technology. By making the unseen “visible”, these detectors not only expand our understanding of the natural world but also pave the way for innovations that improve and advance human life.

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