

## **Seeing the Unseen: Detectors for Nuclear and High Energy Physics Research**

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### **Abstract:**

From uncovering the secrets of atomic nuclei to exploring the origins of the elements, modern physics relies on detectors that can “see” the invisible. Over the past decades, these detectors have become faster and more precise. Several state-of-the-art detectors — from silicon-based systems to scintillators and gas-filled ones — have been developed and utilized at DAE. This talk will explore how the use of detectors has broadened our fundamental knowledge of the micro-world. We will also look at how such detectors might find applications beyond the lab, potentially benefiting society.