

## Cutting-edge X-ray detectors for precision spectroscopy of exotic atoms

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Precision spectroscopy of exotic atoms demands the continuous development of cutting-edge radiation detectors, aiming at wide energy range detection capability, ultra-high energy resolution and room temperature operation.

Among these technologies, CZT based detectors and crystal spectrometers represent two excellent possibilities to meet these criteria and have already shown promising results.

In this talk, the recent developments of such X-ray detection systems developed at the INFN Laboratories of Frascati will be presented, highlighting the excellent performances obtained and the future perspectives in measuring X-ray transitions in exotic atoms.

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