

Radioactive Molecules as Quantum Sensors for Fundamental Physics

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Recent advances in precise control and study of molecules have opened up new opportunities for fundamental physics research. Radioactive molecules, in particular, can be artificially created to contain nuclei with extreme proton-to-neutron ratios, providing an extreme sensitivity to symmetry-violating nuclear properties. Precision measurements of these systems can offer unique and complementary laboratories in our search for new physics. In this talk, I will present recent highlights and perspectives from laser spectroscopy experiments on these exotic species.

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