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Observation of rovibrational transitions of strontium oxide isotopologues based on cavity ringdown spectroscopy

Cavity ringdown spectroscopy (CRDS) is one of the most sensitive laser absorption spectroscopic techniques employing a highly reflective resonator. We have proposed to apply CRDS to the observation of rovibrational transitions of strontium oxide and its isotopologue, particularly toward the detection/measurement of radioactive molecules such as ^{90}SrO . Experimental details as well as the observed stable SrO isotope spectra will be shown in the presentation.

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