

## THE PURE ROTATIONAL SPECTRUM OF PbI FROM BROADBAND ROTATIONAL SPECTROSCOPY

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The pure rotational spectrum of the open-shelled diatomic PbI is presented. The deep averaged broadband spectrum has allowed for characterization of several rotational spectra belonging to various lead isotopologues, as well as multiple vibrationally excited states of PbI. Being an opened-shelled diatomic,  $\Lambda$ -type doubling was observed. Analysis of the diatomic's spectral constants and potential energy surface will be described. These results will also be compared to early results from SnI.