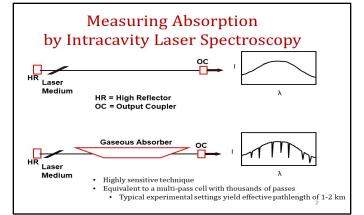


## ISMS

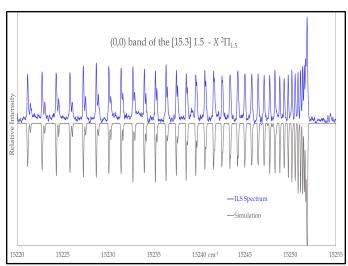
June 25, 2021

## (0,0) band of the [15.3] $\Omega$ =3/2 - $^2\Pi_{3/2}$ electronic transition of PtF by ILS

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- Initially, a single P and R branch were observed
- Js assigned using  $\Delta_2 F$  values from ground state
- 194,195,196PtF line positions measured assuming isotopic relationships
- *B*, *D*, and *H* values constrained in the fit to isotopic relationships; MW Data included in fit



## Molecular Constants for the [15.3] $\Omega$ =3/2 state of PtF (in cm<sup>-1</sup>). Origin $B_0$ $D_0 \times 10^7$ $H_0 \times 10^{12}$ 195 PtF 15248.50568(72) 0.2559632(16) 2.4483(99) 2.28(18) a $B_0$ , $D_0$ , and $H_0$ values constrained to isotopic relationship based on 195 PtF.

