INTRACAVITY LASER ABSORPTION SPECTROSCOPY OF PLATINUM NITRIDE IN THE NEAR INFRARED

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The (2,0) band of the $A^2\Sigma^-$ - $X^2\Pi_{1/2}$ electronic transition of PtN has been recorded using intracavity laser absorption spectroscopy. Transitions from ^{194}PtN, ^{195}PtN, and ^{196}PtN isotopologues are observed, as well as the nuclear hyperfine splitting due to ^{195}Pt with I=1/2. The results of the analysis will be presented and compared with ab initio calculations.