INTRACAVITY LASER ABSORPTION SPECTROSCOPY OF PLATINUM FLUORIDE IN THE NEAR INFRARED

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Two new bands of PtF have been recorded in the near-infrared with rotational resolution using intracavity laser absorption spectroscopy. Red-degraded bandheads are observed at 12523 and 13079 cm^{-1}, and they are identified as the (0,0) and (1,0) bands of a new electronic transition based on the observed isotopologue splitting in the bands. The results of the analysis will be presented. The gas phase PtF molecules were produced using a platinum-lined hollow cathode in an argon-based electric discharge with a small amount of SF_6.