INTRACAVITY LASER ABSORPTION SPECTROSCOPY OF ZIRCONIUM FLUORIDE IN THE NEAR INFRARED

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A new band of ZrF has been recorded in the near-infrared with rotational resolution using intracavity laser absorption spectroscopy. A red-degraded bandhead is observed at $12527\mathrm{cm}^{-1}$, and 2 R-branches and 2 P-branches have been identified. The results of the analysis will be presented. The gas phase ZrF molecules were produced using a zirconium-lined hollow cathode in an argon-based electric discharge with a small amount of SF_6.