INTRACAVITY LASER SPECTROSCOPY OF PtC and PtO IN THE NEAR INFRARED

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PtC bands at 12546.9 and 12655.9 cm^{-1} were recorded with a intracavity laser absorption spectroscopy (ILS) with a solid-state-pumped Ti:sapphire laser. The (0,0) $A_3\ 0^+ - x\ 1_e$ band of PtO was also recorded with ILS. Improved line positions and molecular constants are provided for these molecules. The PtC and PtO molecules were produced using a platinum-lined hollow cathode in a helium-based electric discharge with 5-8% oxygen.