INFRARED SPECTRUM OF THE COMPLEX OF H$_2$ WITH NH$_3$ TRAPPED IN SOLID NEON

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When a Ne:NH$_3$:H$_2$ sample is deposited at 4.2 K, the vibrational fundamental absorption of H$_2$ appears, and new structure appears in the infrared absorption patterns of the fundamentals of NH$_3$. Information regarding the carrier(s) of the new absorptions is obtained by varying the concentration of H$_2$ and by studies in which it is replaced by HD or by D$_2$. 