**High Resolution Laser Spectroscopy of the $\tilde{C}^2A_1$–$\tilde{X}^2A_1$ Transition of $SrNH_2$ and $\tilde{B}^2B_1$–$\tilde{X}^2A_1$ Transition of $CaNH_2$**

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The high-resolution laser excitation spectrum of $\tilde{C}^2A_1$–$\tilde{X}^2A_1$ transition of $SrNH_2$ and $\tilde{B}^2B_1$–$\tilde{X}^2A_1$ transition of $CaNH_2$ were recorded. The $SrNH_2$ and $CaNH_2$ molecules were made by pulsed laser ablation of Sr and Ca metal rods followed by reaction with $NH_3$. A cw dye laser was used to detect the laser induced fluorescence from a supersonic beam. The measured line positions have been fitted to give molecular constants for the electronic states.