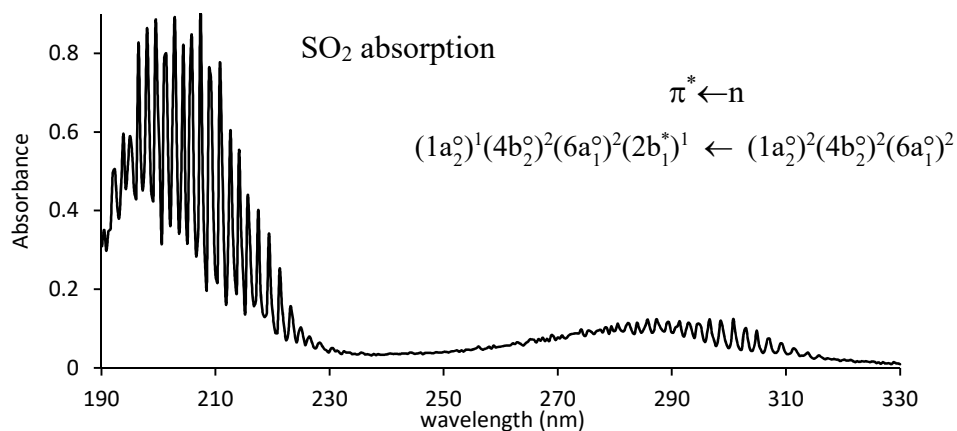
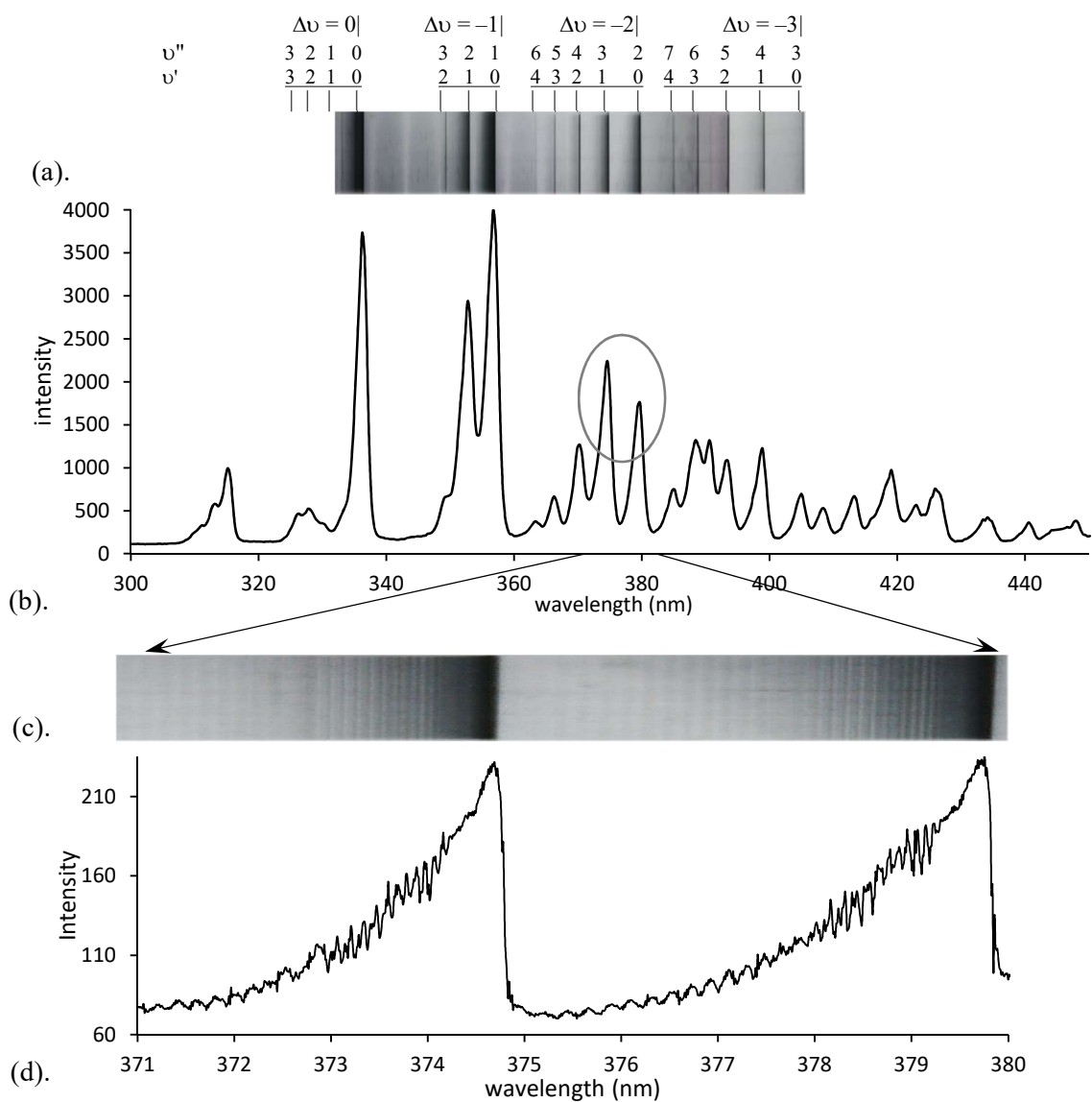


Electronic Spectroscopy



Emission spectrum of N₂ for the $^3\Pi_u \rightarrow ^3\Pi_g$ electronic transition.



$$\tilde{E}_{i,v,J} = \tilde{T}_{e,i} + \tilde{G}(v) + \tilde{F}(J) = \tilde{T}_{e,i} + \tilde{v}_{e,i} (v + \frac{1}{2}) - \chi_{e,i} \tilde{v}_{e,i} (v + \frac{1}{2})^2 + \tilde{B}_{v,i} J(J+1) - \tilde{D}_{e,i} [J(J+1)]^2$$

