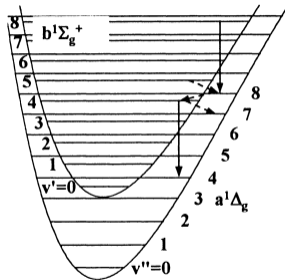


Emission Spectra and Relaxation Mechanism of b State O₂ in Low Temperature Ar Solids

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The $b \rightarrow X (v', v'')$ emission spectra of O₂ in Ar solids were examined. The b state relaxation rate was measured and analyzed by adopting the multiphonon relaxation theory. The dominant relaxation route of the b, v' level is the $b \rightarrow a \rightarrow b$ interstate transition.