

ANALYSIS OF EMISSION SPECTRA OF YTTRIUM MONOIODIDE PRODUCED BY THE PHOTODISSOCIATION OF  $YI_3$

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Emission spectra of yttrium monoiodide (YI) spanning the 250 - 940 nm spectral region were generated by the photodissociation of yttrium tri-iodide under photoexcitation at 248 nm (KrF laser). Fluorescent spectra in the 13,000 - 19,000  $cm^{-1}$  and 24,000 - 40,000  $cm^{-1}$  regions will be first reported. New vibrational transitions of YI in the 20,000 - 25,000  $cm^{-1}$  interval will be presented as well.