RESONANT TWO-PHOTON IONIZATION SPECTROSCOPY OF JET-COOLED OSMIUM NITRIDE

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Optical transitions of supersonically cooled OsN were investigated for the first time in the range between $19,231$ and $22,988\ cm^{-1}$ by resonant two-photon ionization technique. Ten bands were rotationally resolved for the four largest isotopomers, $^{192}Os^{14}N\ (40.78\%)$, $^{190}Os^{14}N\ (26.26\%)$, $^{189}Os^{14}N\ (16.12\%)$ and $^{188}Os^{14}N\ (13.24\%)$.