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VUV SPECTRA Y TO Mo

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Using R.D. Cowan's computations (1979) and parametric calculations of Meinders et al (1982), old analyses are thoroughly revised and extended at Aligarh, of Zr III by Khan et al (1981), of Nb IV by Shujauddin et Chaghtai (1985), of Mo V by Tauheed at al (1985). Cabeza et al (1986) confirmed the last one largely.

Rb I-Sequence

Extensive studies have been reported of the 1-e spectra, Zr IV (Rahimullah et al 1980; Acquista and Reader 1980), Nb V (Shujauddin et al 1982; Kagan et al 1981) and Mo VI (Edlén et al 1985). Some interacting $4p^5\ 4d^2$ levels of these spectra have been reported from our laboratory, also.

Kr I-Sequence

Detailed spectral analyses of transitions between excited states have furnished complete energy values for $J \neq 1$ levels of these spectra during 1970s and 80s. Shujauddin et al (1982) have worked out Nb VI and Tauheed et al (1984) Mo VII from our lab, while Khan et al (1981) share the work on Zr V with Reader and Acquista (1979).

Br I-Sequence

The $4p^4ns,nd$ levels of these spectra were amply investigated through 'resonance transitions' in late 60s and early 70s. Efforts to extend work on $4p^44f$ and 5p are proving very difficult because of very strong mixing with levels of $4s\,4p^54d$ and 5s (Y VI: Persson and Reader 1986).

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