

AN ELECTRON SPECTROMETER FOR STUDYING
THE AUTOIONIZATION PROCESSES
IN METAL VAPORS

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S u m m a r y

An electron spectrometer is described for the use in precise studies of the autoionization processes in metal vapors. The spectrometer incorporates both the energy-selected and unselected electron beam sources, a 127° cylindrical deflection electron analyzer and an oven as the source of an atomic beam. The performance of the spectrometer is demonstrated with the measurements of ejected-electron excitation functions for the autoionizing states of sodium and potassium atoms.