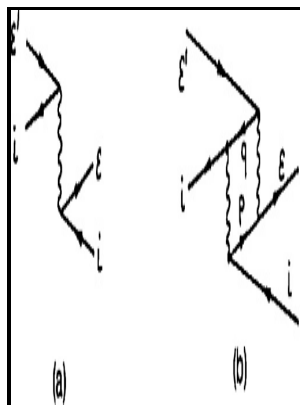


# Photoionization and other probes of many-electron interactions

Plenum Press - Scientific Publications 1970



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v. 18

NATO advanced study institutes series : Series B, Physics

; Photoionization and other probes of many-electron interactions

Notes: Includes bibliographical references and indexes.

This edition was published in 1976



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## Photoionization and other probes of many

In photo-electron pumped systems, an ambient vapor is partially photoionized to create an energetic bath of electrons which then collisionally excites the lasing species. Some of the resonances can occur near the outer shell photoionization threshold even for highly charged ions, and so can distort the otherwise monotonic behaviour of the photoionization cross sections. Publication Date: 1976-01-01 OSTI Identifier: 6224386 Report Number s : CONF-750820- Resource Type: Conference Resource Relation: Conference: Conference on photoionization and other probes of many-electron interactions, Carry-le-Rouet, France, 31 Aug 1975; Related Information: NATO advanced study institutes series.

## Scientific Publications 1970

This laser is also believed to be the first of a new class of lasers in which the upper level of the laser is embedded within the continuum.

## A New Experimental Study of Multiple Ionization in Noble Gases by Electron and Photon Impact

But then, there will be ICOMP IV. Shape-resonances also disappear because there is no potential barrier for the potentials of highly charged ions. The energy range in which they occur, at the juncture of the extreme UV and the soft X-rays, remains to this day a meeting point of two different experimental techniques: the grating and the crystal spectrometer.

## Eisenbud

Over the last few years, substantial progress has been made in the experimental study of photon- or electron interactions with atoms.

## A New Experimental Study of Multiple Ionization in Noble Gases by Electron and Photon Impact

Emphasis is given to the photoionization dominated by the resonance structures, which reveals the effect of the multi-electron interaction in atomic transitions involving highly correlated atomic systems. Five other papers, dealing solely with photoexcitation or photoionization, were determined to be outside the scope of the data base.



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