



INTERNATIONAL ATOMIC ENERGY AGENCY
UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION



INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS

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SMR/100 - 60

WINTER COLLEGE ON LASERS, ATOMIC AND MOLECULAR PHYSICS

(24 January - 25 March 1983)

CARS Spectroscopy

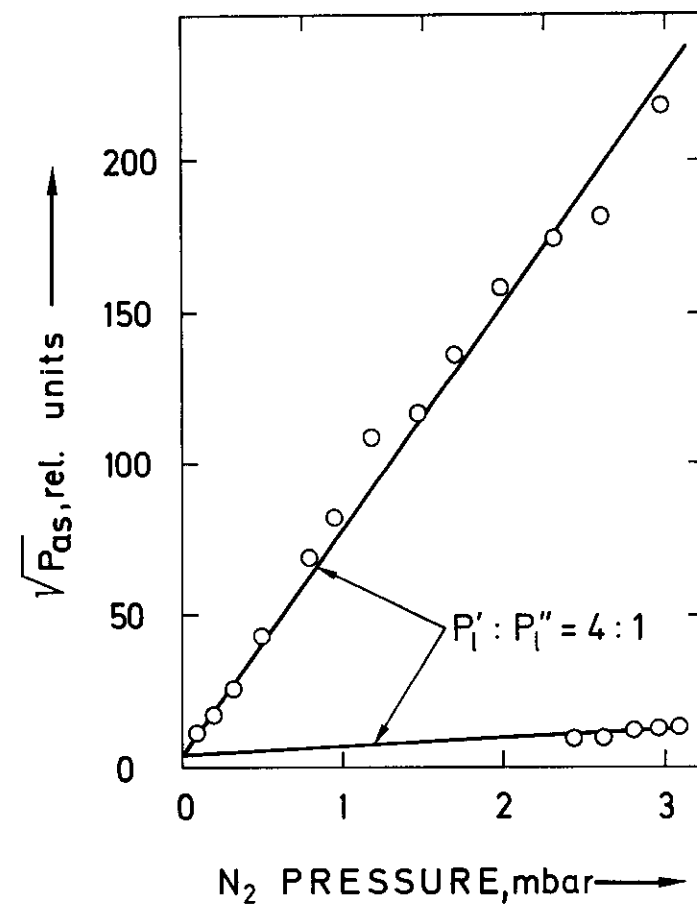
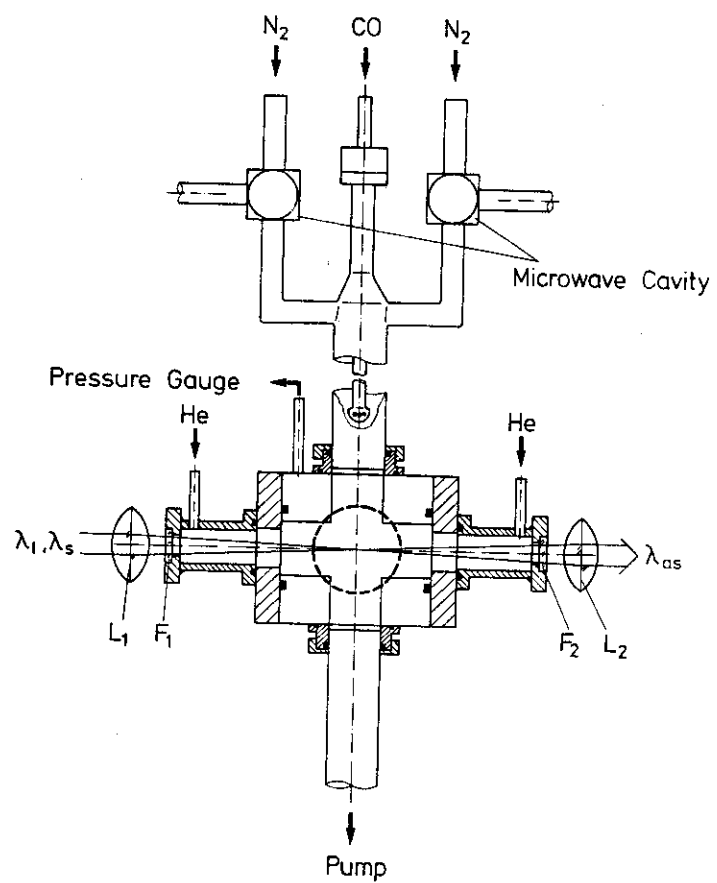
Part III

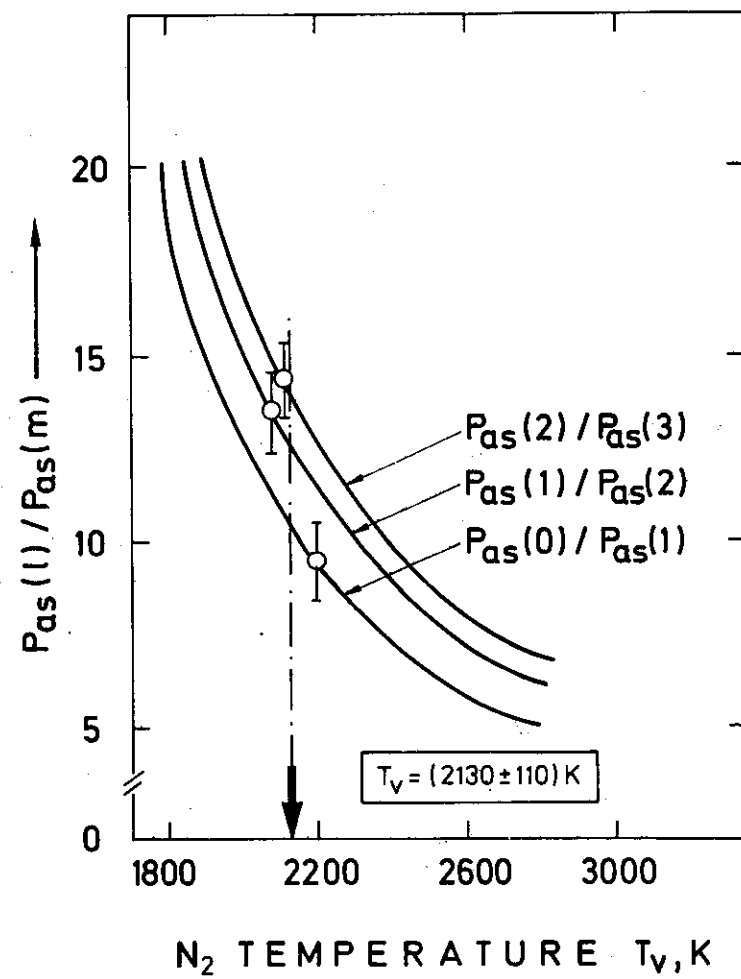
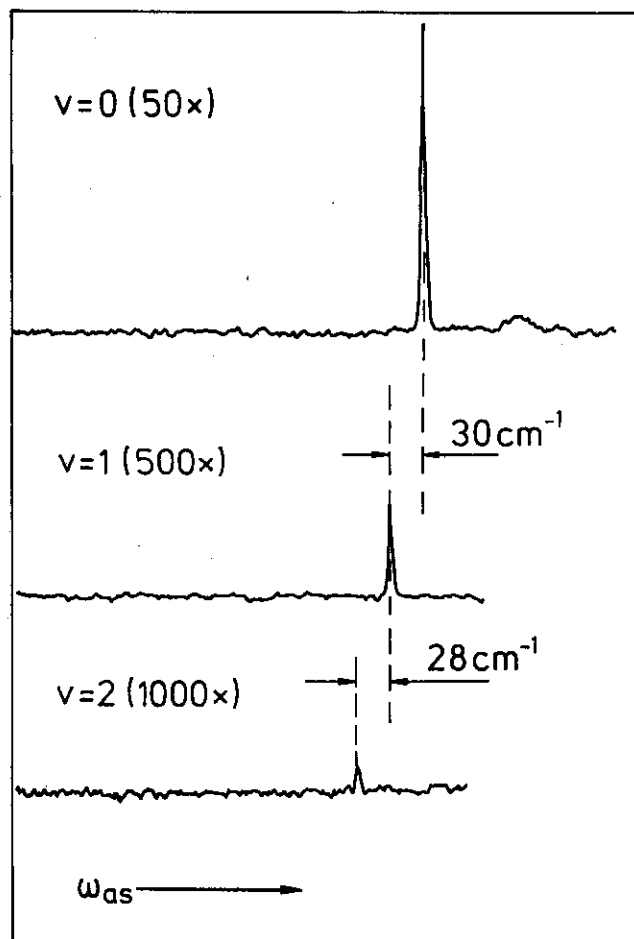
Applications

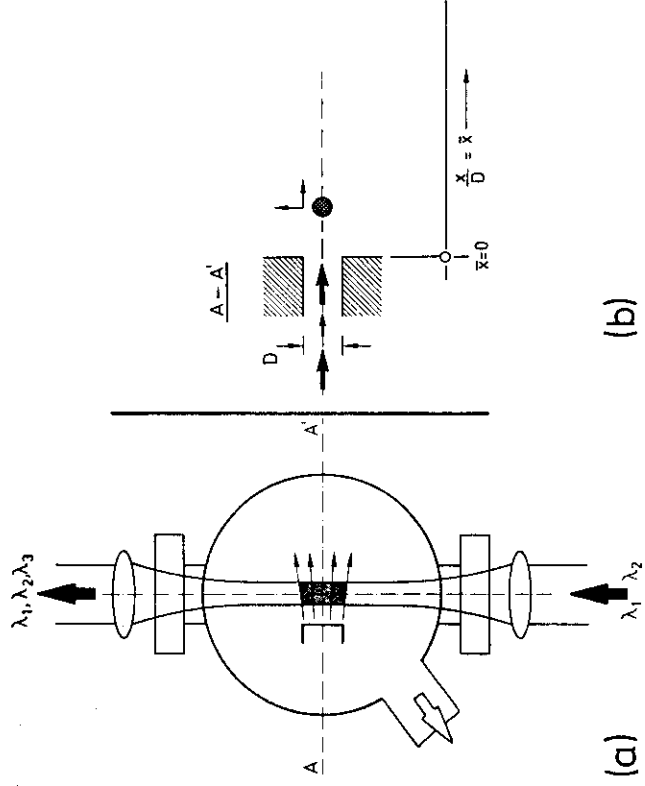
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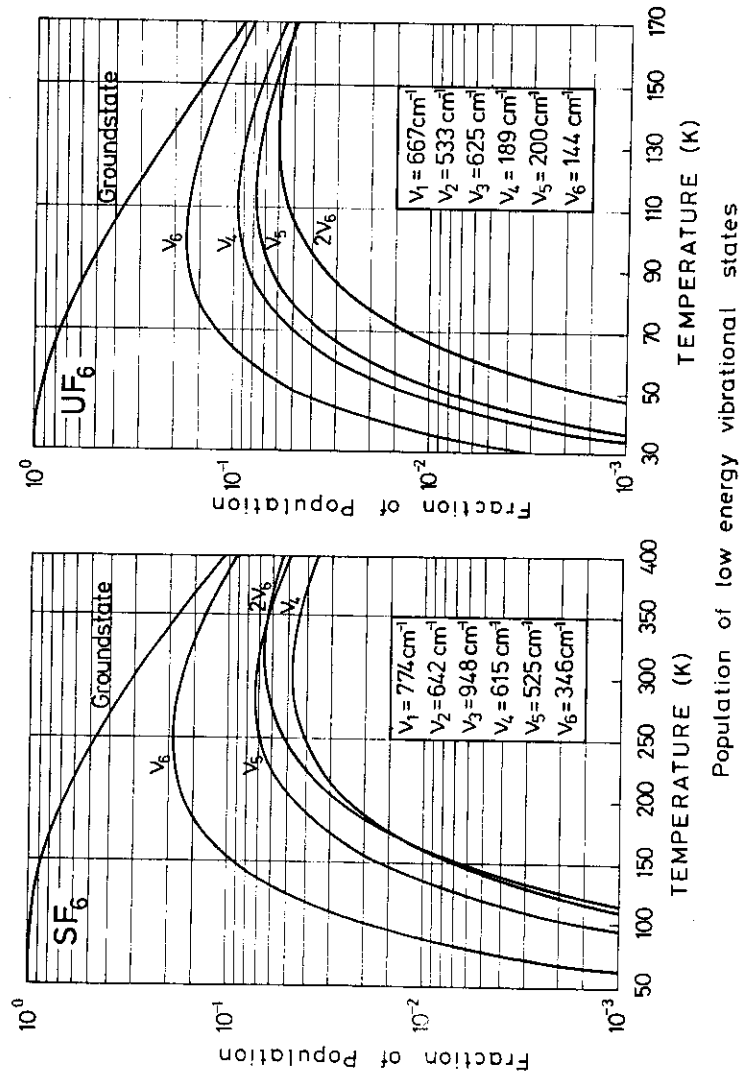
These are preliminary lecture notes, intended only for distribution to participants.
Missing or extra copies are available from Room 230.



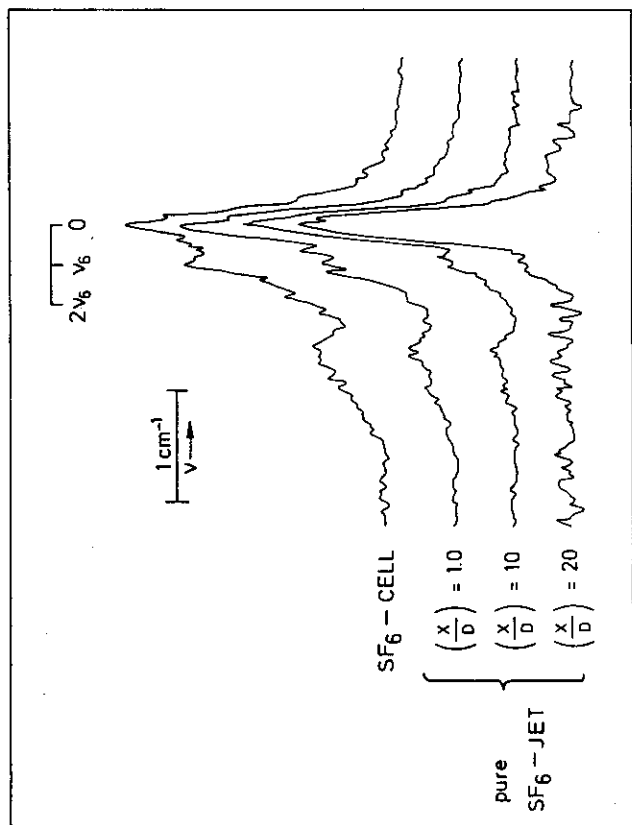




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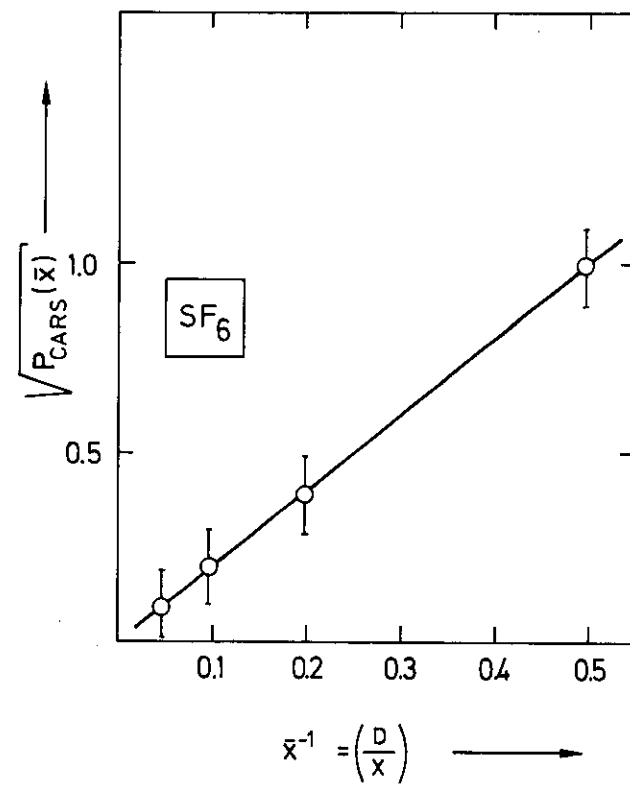


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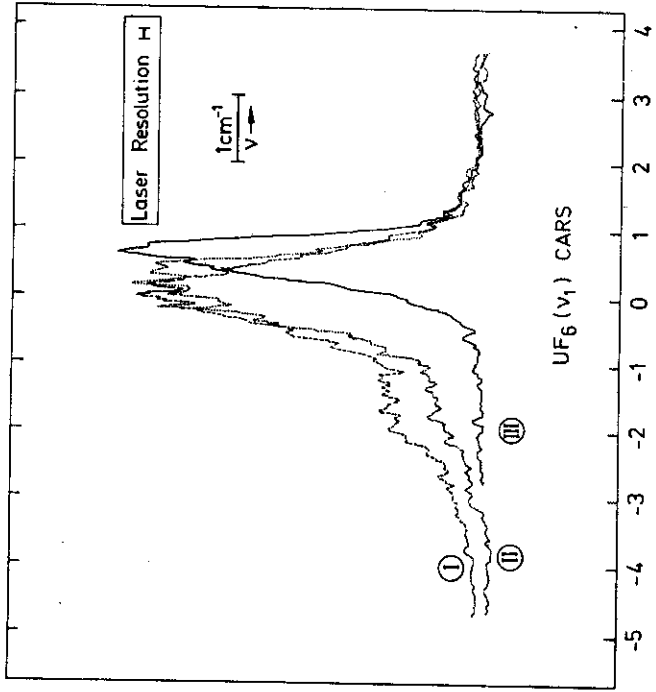


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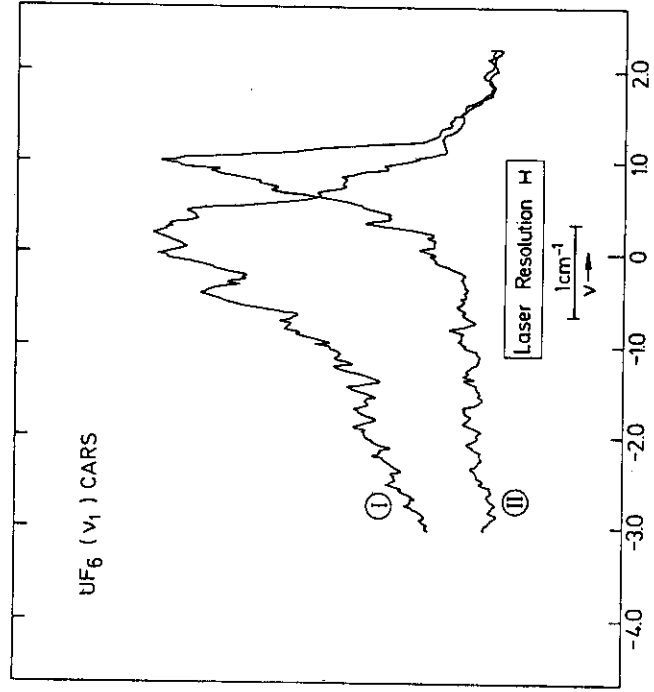
$$P_{\text{CARS}} = C \cdot N(\bar{x})^2 \cdot |\chi^{(3)}|^2 \cdot P_1^2 \cdot P_2$$



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9



10

CARS in Biology

Difficult,
Enhancement by absorption
Flow systems.

Example

P.K. Dutta et al.

Biochim. Biophys. Acta, 623, 77 (1980).

Proflavine

