

Simmetria e Chimica

Applications

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UNIVERSITÀ
DEGLI STUDI
DI TRIESTE



DSCF

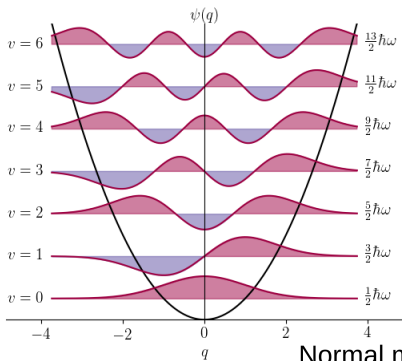
Dipartimento di
**Scienze Chimiche
e Farmaceutiche**

PhotoInduced Quantum Dynamics (PIQD) Unit

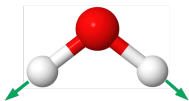
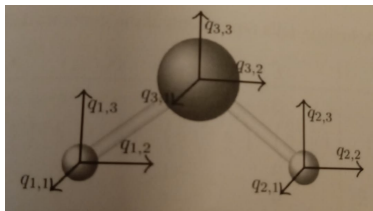


Vibrational spectroscopy

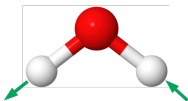
Quantum harmonic oscillator



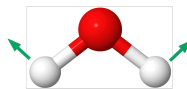
Basis for representing the nuclear motion



symmetric stretching



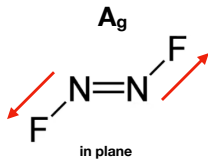
asymmetric stretching



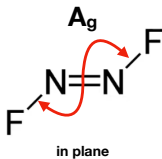
bending

RAMAN ACTIVE

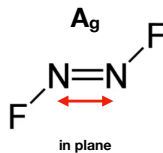
sym N-F stretching



sym NNF bending

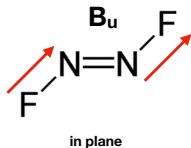


N=N stretching

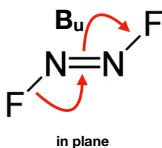


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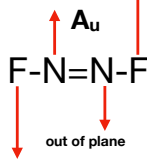
asym N-F stretching



asym NNF bending



“deformation”



Crystal field theory

