

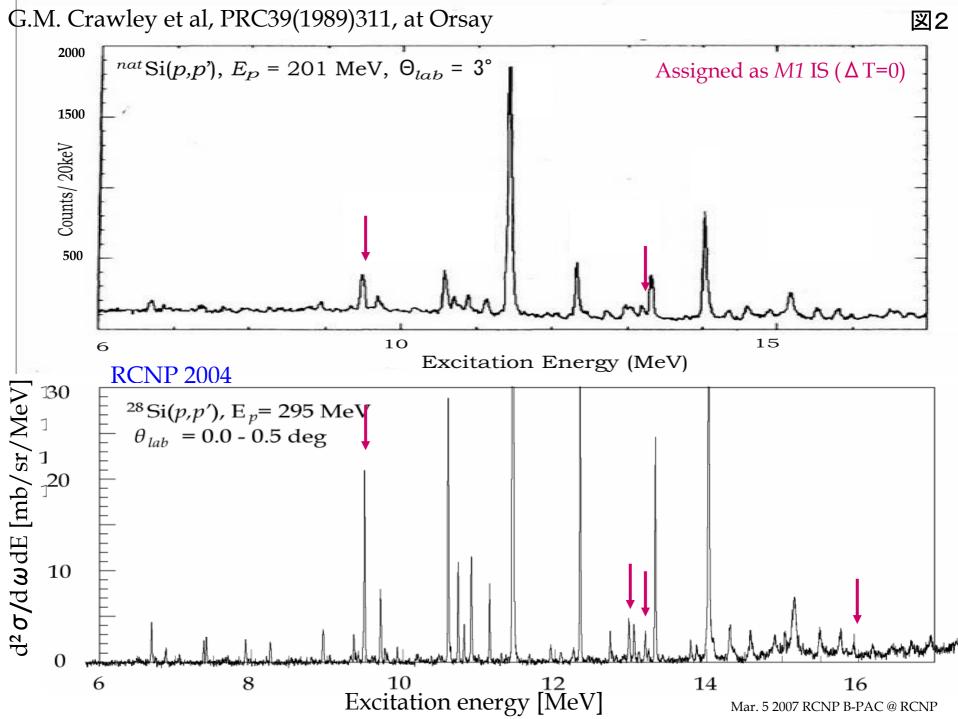
Mass 18:0

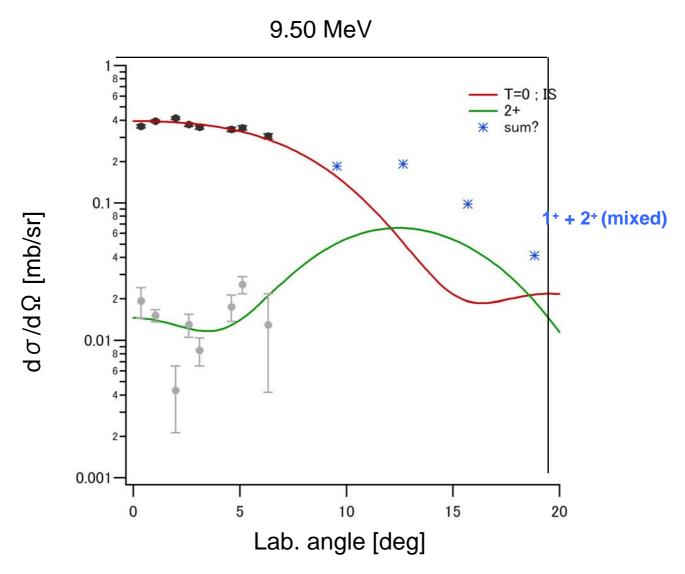
20,22 : Ne

24,26 : Mg

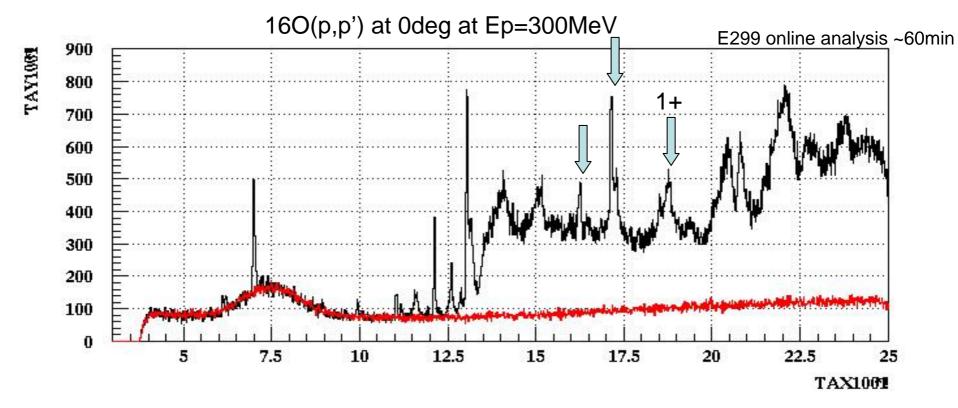
28 : Si

32 : S





Angular distribution of 1+ isoscalar of 28Si at Ex = 9.50 MeV. An interesting result of a flutter curve of IS can be seen. (2+ peak has not been decomposed.)



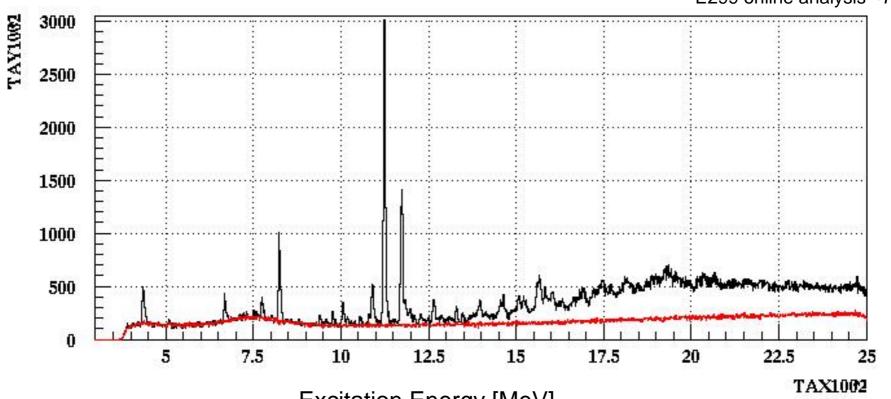
Excitation Energy [MeV]

Ice sheet H₂0 (self-supporting) was used.

~10mg/cm^2



E299 online analysis ~75min

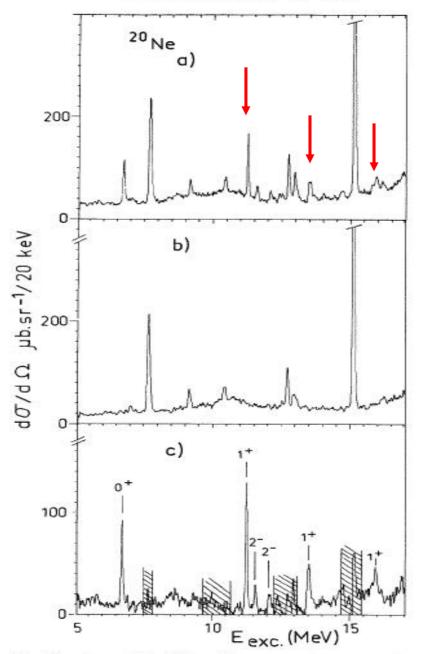


Excitation Energy [MeV]

Many candidates of 1+ peak are seen.

A self-supporting target of surfur sheet was used. (~6mg/cm^2)

Energy resolution: ~40 keV (due to the target thickness)



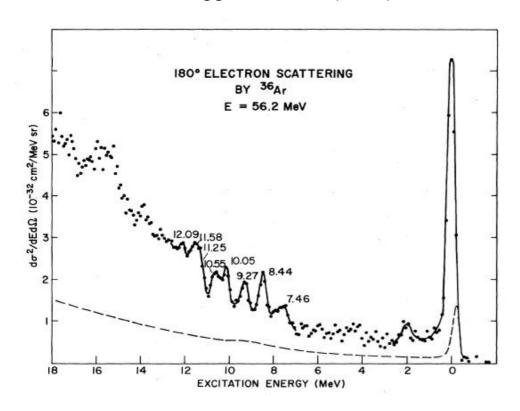
20Ne(p,p')

With Kapton windows

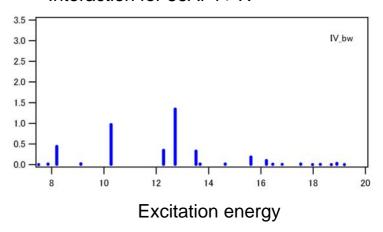
A.Willis et al. NPA464(1987)315-325

36Ar(p,p')

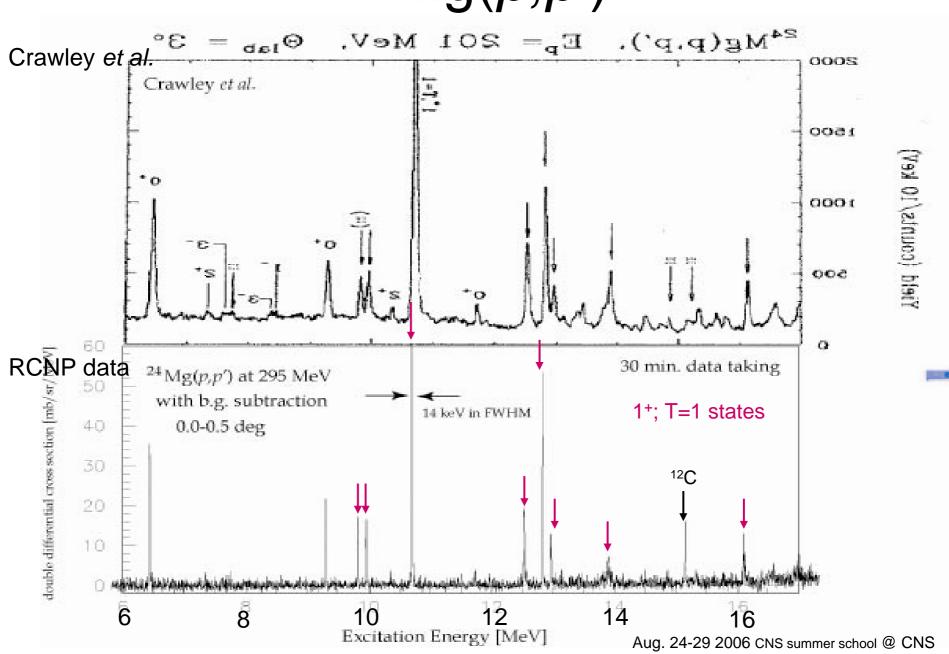
L. W. Fagg RMP 47 3 (1975)



Shell model calculation with USD Interaction for 36Ar 1+ IV

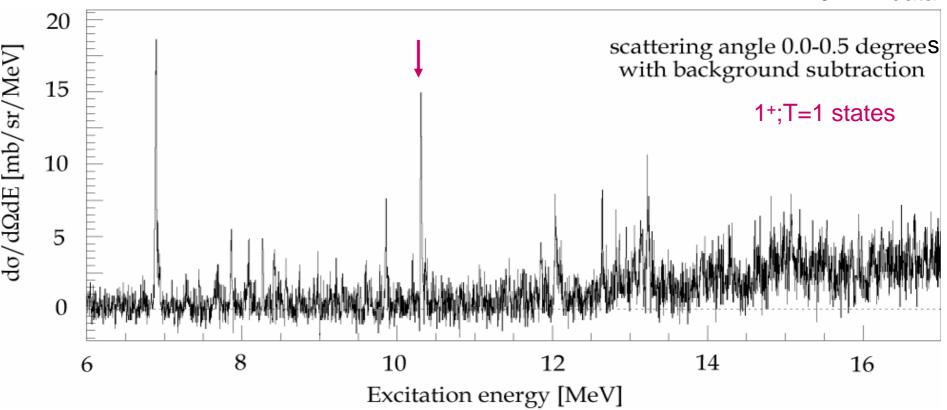


$^{24}\text{Mg}(p,p')$



$^{40}Ca(p,p')$

120 min. data





Gas cell Aramido window 2mm 3-4mm 6mm

The gas cell for inelastic measurement

Cell length: 8-10mm