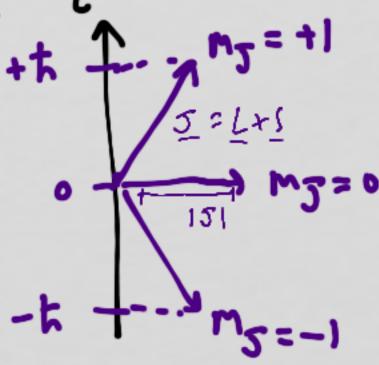
Degeneracy in Molecular Tean Symbols

- Note in abours, 25+1 degeneracy arises from 25+1 possible projections of J onbo the space-fixed axis:

- But, in molecules he do not define projects projections this way. Instead he projects to the internudeur axis:





>-So, there is no malogue of J, only of mJ. So cannot specify
the # of projections with 25+1. Instead, for given 1, specify
the possible values of Z. Z= S, S-1, ... 1-51 & 25+1 values
- So, the number of states in a given term (the degreeny)

= 25+1

For a fixed N, i.e. m a 2TT stole.

g = 25+

this is . I is not a good quantum # when the system is not spherically symmetric

see Fore L J does not commute 11 Angular monodorii with 1 in this case

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