







This single case short op is lets of places! e.g. "21 on the of Hydroger" Som good as as to write rue being operators like Lz, Jz, J2 L'S in eith basis! . In Hydroga, spin of nucleus (prohin) carea. And interacts interacts interprin of electron! Most visible in Hydragen gr. 8000 - ady Energy: Ap = A IL . IL = AYeY, Se-Sp itigised as I s subscipti · In Me mp bais \$\frac{1}{5}, 111> = (\frac{1}{5}, 11>) \cdot (\frac{1}{5}, 11>) S.け> き[の(い)×+の(い)ガナの(い)ガナの(い)ガ]= き[(い)×+(い)ガナ(い)ガ = = [(1) × + (-1) y + (-1) z] 3/11> 質[16>×+i11>ダ・17>至]・[11>×+:11>ダ+17>至] = 在[115>-1165>+177>] = ない11> 5. 5 [11) = + [[] = + [] = - 1] = - 1] = - 1] = - 1] = - 1] = - 1] = 芸[117>+117>-17」- 芸[2119>-174>] Hhs: At (0 -1 2 0) unco-pled du I han good interaction bury!







