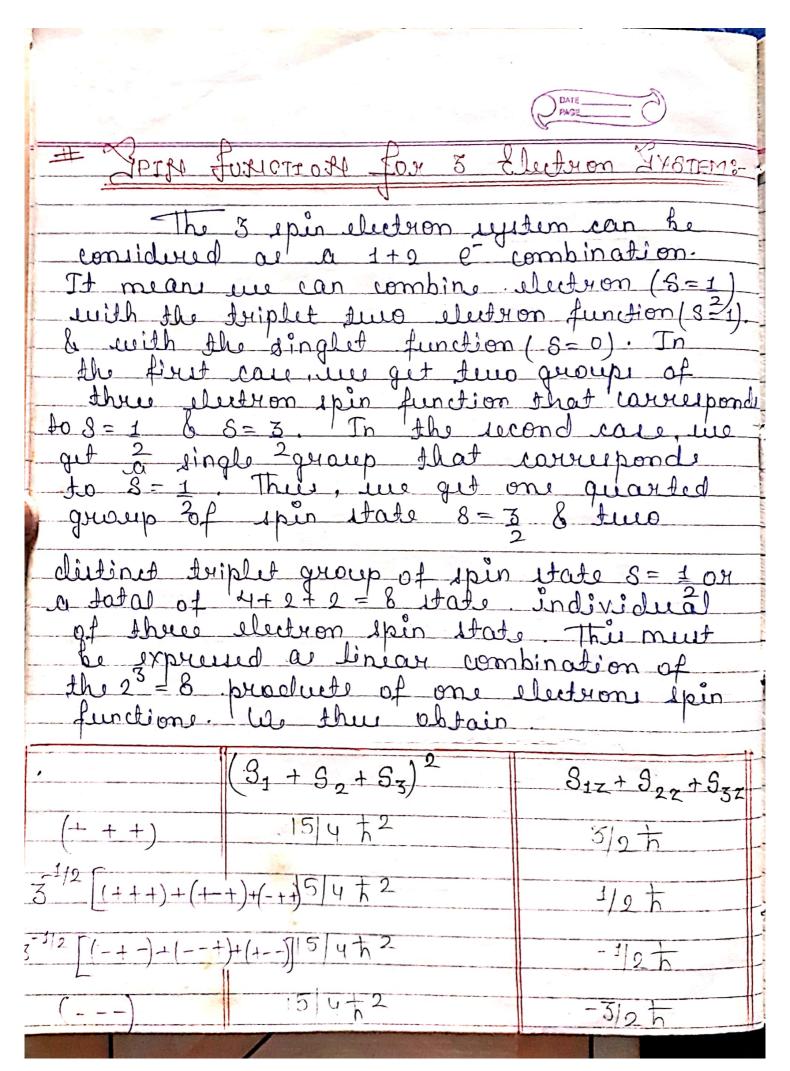
Dr. Priya Dubey (Guest Lecturer)

School of Studies in Physics, Vikram University, Ujjain

Lecture for M.Sc. Physics II Semester students

Paper – III Quantum Mechanics – II

Unit- III: Identical Particle



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	CATE PAGE	1
16-12[2(-++)-(++-)-(+-+)]3 4h2	112方	
6-12 (-+-)+·(+)-2(+-)314he	-1/2 h	
$\frac{1}{2^{-1/2}\left[(++-)-(+-+)\right]^{3/4}+^{2}}$	1/2h	
$\frac{1}{2^{-1/2}} \left[(-+-) - (+) \right] \frac{3}{4} \frac{1}{h^2}$	-1/2 h	
The first four quadrate states are Symmetric in the interchange of any hair of particles. The division of the four triplet states into true pair in such that the first is symmetric in the interchange of particle 2 & 5. and recond pair is anti-symmetric 2 & 3. The symmetry with respect to the interchange of other true pairs is shareacterized the 2x2 matrix. The matrix Operate on either pair of triplet spin state that have the same Valse.		