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J S, 71, 72 (Sz (1) N,) n2 + 71, (5z (2) N2) Sinv 5 (2) Note: White you can write

(Sz(1) N,) M2 + (Sz(1) N, 3 N2 [first Eseard spin Spin state state its best to keep dike states on one side while the unlike states on the other side Sz=mt Sz(mt) [eigen value] (S2)7 = (mt) / = S= 7, 1/2 = mits 7, 1/2 + m2 th 71, 712 $S_2 \mathcal{N}, \mathcal{N}_2 = h(\mathcal{N}, \mathcal{N}_2) [m, + m_2]$ mam, +m2