$$r^2(n) = Ur^2U^{\dagger} \cdot \langle Y_{\alpha}(n) | r^2(n) | Y_{\alpha}(n) \rangle$$

* Since Q (4, (n)> ~ 0 P (4, (n)> ~ (4, (n)>

the relevant part is Pr2(N)P

* We want to decompose

+ PUR reautp

* Since were interested in Sr2(A), we should really

6 (L5(V) - L5) b = 6 8 L5(V) b

* So, we know the exact answer $(4_{\lambda}(N) | PSF^{2}(N) P | 4_{\lambda}(N))$.

In he table, we want

to see what the contributions of the "P-to-P", "P-to-Q", "Q-to-Q" terms are.