$3\sigma_u = \sigma_u\,2p$

$1\pi_g = \pi_g\,2p$

$1\pi_u = \pi_u\,2p$ 2p

$3\sigma_g = \sigma_g\,2p$

$2\sigma_u = \sigma_u\,2s$

$2\sigma_g = \sigma_g\,2s$ 2s

$1\sigma_u = \sigma_u\,1s$

$1\sigma_g = \sigma_g\,1s$ 1s

Large R $R = \infty$