



- $\uparrow\uparrow$  neutron pair halo
- $\bullet$  particle-vibration coupling vertex
- $\odot$  particle-pair vibration coupling vertex
- $v_{np}$  proton-neutron int.
- $\sim$  recoil mode
- $\uparrow$  neutron
- $\uparrow$  proton
- $z^2 \lesssim$   $^9\text{Li}$  core quadr. vibr. mode
- $1 \lesssim$   $^{11}\text{Li}$  giant dipole pygmy resonance mode
- $\equiv$  particle-recoil mode coupling vertex
- $\uparrow\downarrow$  deuteron continuum
- $\uparrow$  proton continuum
- $\dots$  monopole interaction