



$\parallel$  neutron pair halo

• particle-vibration coupling vertex

⊙ particle-pair vibration coupling vertex

$v_{np}$  proton-neutron int.

$\sim$  recoil mode

$\uparrow$  neutron  
 $\blacktriangle$  proton } bound

$2^+ \sim$   $^9\text{Li}$  core quadr. vibr. mode

$1^- \sim$   $^{11}\text{Li}$  giant dipole pygmy resonance mode

$\equiv$  particle-recoil mode coupling vertex (PRCV)

$\parallel$  deuteron continuum  
 $\uparrow$  proton continuum  
... monopole interaction