



⌋ neutron pair halo

• particle-vibration coupling vertex

⊙ particle-pair vibration coupling vertex

v_{np} proton-neutron int.

⌋ recoil mode

↑ neutron

↓ proton

} bound

$2^+ \lesssim$ ^9Li core quadr. vibr. mode

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

⊞ particle-recoil mode coupling vertex

⌋ deuteron continuum

↑ proton continuum

.... pairing interaction