[box 4] 3 in overall agreement with the experimental findings (Zinser et al, 1997). It is of notice that the centroid of the pigmy resonance calculated in the RPA with the help of a separable interaction is ~ (0.8 MeV + 2.0 MeV)/2 ~ 1.4 MeV (see Fig. 11.3(a) p. 269, Brink and Broglia, 20.10), Let us now estimate the binding which the exchange of the pigmy resonance between two neutron of the Cooper pair halo of "Li can provide The particle vibration coupling 1= 1=(DW(E)/DE/TWPIGMY) -1/2, where W(E) is the dispersion relation used to deter mine This government of a dimension less single particle field $F' = F/\langle r^2 \rangle_{nLi}$ $\frac{1}{2(\epsilon_R - \epsilon_i)(\lambda_i)F/\langle r^2 \rangle_{nLi}R\rangle}$ $\frac{1}{(\epsilon_R - \epsilon_i)^2 - E^2}$ Zinser etal 1997 Nucl. Phys. A619, 151.