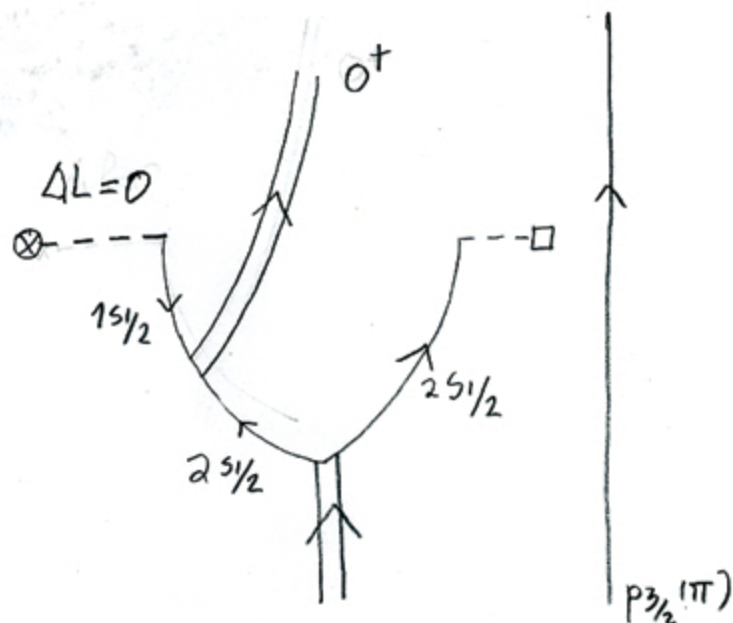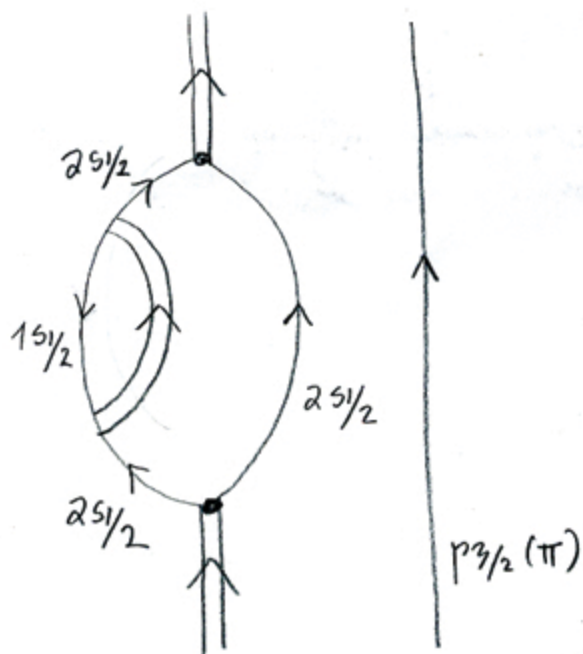# One-particle transfer

the $1s_{1/2}$ state is partially emptied due to ZPF (ground state correlations) of the pair addition mode

$^{11}Li(gs)(d,p)^{11}Li(gs)+n$
($\ell=0$ transfer)

$(2^+ \otimes p_{3/2}(\pi))_{J^-}$ multiplet

$^{11}Li(gs;3/2^-)(p,d)^9Li(2^+\otimes p_{3/2}(\pi);J^-_{mult.})$
$+ n$