

Choose the first combo $[N_1 N_2 N_3 N_4 N_5 N_6]$
 are 221's children leaves? none of them
 are, so make no flags
 \rightarrow move down to left 111

array states

$W: [N_1 N_2 N_3 N_4 N_5 N_6 N_7]$

$\eta: [N_1 N_2 N_3 N_4 N_5 N_6]$

$\pi^0: [X X]$

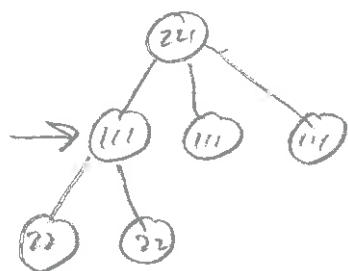
$\pi^0: [X X]$

$\pi^0: [X X]$

used

$[N_1 N_2 N_3 N_4 N_5 N_6 N_7]$

$[0 0 0 0 0 0 0]$



> get 111's leaves

$\rightarrow [22, 22]$

> generate all combos of unused particles

> choose from η selected combo. $\binom{6}{2} = 15$

$[N_1 N_2]$
 $[N_1 N_3]$
 $[N_1 N_4]$
 \vdots

Select 7 combination $[N_1 N_2]$

is 111's children leaves? yes mark used

\rightarrow move to 22's... these are leaves so

we recurse back out to the middle 111

array states

$W: [N_1 N_2 N_3 N_4 N_5 N_6 N_7]$

$\eta: [N_1 N_2 N_3 N_4 N_5 N_6]$

$\pi^0: [N_1 N_2]$

$\pi^0: [X X]$ $\pi^0: [X X]$

flags used

$[N_1 N_2 N_3 N_4 N_5 N_6 N_7]$

$[1 1 0 0 0 0 0]$