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Algorithm for KHA>12
· Assume 14) is stabilized by G= <9, ... gn) and 14) by H= <h, ... hn).
· We can express 10/101 = Time (I+1), so
 (<414)= <41 (I+1)(4)
· Recall the algorithm for "measurement" on a stabilizer state 14).
  · To measure a Pauli-string P:
   1. If PeG > One has P(+)=〈山土(I+P)(4)=1, (4)= (4)
                          and P(-) = (4/5(I-P)(4)=D
   2. If -PEG => P(t)=(4|\(\frac{1}{2}(\pi+P)(\pi)=0\) P(-)=1.
  3. If #P & G => P(t)=(*1)±(U+P)(*)====P(-).
                      The after measurement state (1/2)= 1/P± ± (I±P)(4).
   The Stob. group of (Y±) can be expressed as the following:
   1. Find a New basis of generator 9; such that only one 9; (say 9,)
     anci commute with P.
   2. Replace 9, with ±P. So 14±) is stobized by <P. 91, ... 9/1)
· We can use this "measurement" process to calculate 15414>12.
 Algo: pval = 1.
        |\Psi_m\rangle = (\Psi) (stabilizer-wise).
        For 1=1...a.
         o (Measure hi):
             if hi = 6: continue
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14m>= 15 - ± (I+hi) 14m). (Forcing the new state to be the after-mos.

State with outcome=+)

elseif -hiff: return /(414)=0

pval=pval×±

elseif hi& 6,

end.

return Pval.