Performing Extreme Photon Loss protocol
will NV Centres Notes after Norbert's visit to Oxford Nov. 15 with Earl C. and Masoni C. porticipating Bosic concept is to do this

ALICE PARTIE SUPERIN Bell

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B BACKGROUND Shis symbol: The reas create remote Bell pair start from (5)/5)

where (5) = Dir 7/0> + con 7/17 · detect one photon, > revied state (1-1) 14+>(4+) +1/00/00 1) we can actually create any state distract of /4+7
with different internal phase eg /017 + e i × 1107
as long as & is the same
for both pairs (it caucels).

2) This event is easy to verify by Just working
through the four cases,

P: (=/4) P: 7=/40 P: 7=10 Pais /=/4> & Pais Z=/4>, Pais /=/4> Pais Z=/10> Pair /=/00) & Pair 2=/4), Pail=/00) Pair 2=100>

PRESENT CASE (1) Our local electron rucles gates are roisy (Maybe 2.5% roise) and moreover we will need to try many times to get the second Bell pais and this process will put phase voice on the stored Bell state. Therefore use this general D- The Day ON NUCLEUS

SWAP

SWAP

State not can be implemented encode memory,

All 1 and 11 state not 101>+(10) with only two e-n corrected by → /+->+ /-+> subsequent gates of we know Then reverse later of phase error flip Cachvity nucleus is 10> donard "0" ""
on these measurements this verylies the SWAP. *this executing means that phase roise eventually becomes flip, taking eg 101)+110) -> 100>+111> which is detected by the prevification. But the bad 100> part of mixture can then be

