$$p + p \rightarrow {}^{2}H + e^{-} + \nu_{e}$$
 $^{2}H + p \rightarrow {}^{3}He + \gamma$
 $p + p \rightarrow {}^{2}H + e^{-} + \nu_{e}$
 $^{2}H + p \rightarrow {}^{3}He + \gamma$

 $^{3}\text{He} + ^{3}\text{He} \rightarrow ^{3}\text{He} + ^{p} + ^{p}$