Exercice sheet #1 Elias Hihn & Hax Bedwhold

Exercice 2

$$E \sim V_0 T$$
 $T_{V_1} \sim \Lambda_1 5 \cdot \Lambda_0^{1'} \cdot (E/5)^{-1/2}$
 $Q_1 \quad Y + Y \Rightarrow e^{-\frac{1}{2}} + e^{+\frac{1}{2}}$
 $E = mc^2 \qquad me = 9, \Lambda \cdot 10^{-3\Lambda} \text{ kg}$
 $E = 8, \Lambda 8 \cdot \Lambda_0^{-1/2} \cdot 10^{-3\Lambda} \text{ kg}$
 $2 \cdot 5, \Lambda \cdot 5, S \cdot 5, S \cdot 6, Y$
 $2 \cdot 5, \Lambda \cdot \Lambda_0^{-1/2} \cdot 10^{-3} \cdot 10^{-3}$

s) increasing expansion leads to smaller photon energy

c)
$$p+n \rightleftharpoons D+g$$
 $m_p = 938,272 \text{ MeV}$
 $m_n = 939,565 \text{ MeV}$
 $m_0 = 1875,612 \text{ MeV}$
 $E_p + E_n \rightleftharpoons E_0 + E_g$
 $= 2,225 \text{ MeV}$

There are several reactions that can form "He that mainly involve D => only a small amount is left.