



7th French Physicists'
Tournament



Société Française
de Physique

COMMISSION JEUNES

Captain's Fight 4 backup

FPT 2020
February 7–8th

1. Question



2. Solution

You have 30 seconds to solve
the following question :



What is the mass of the Higgs boson, in unit of RedBull (35.5 cL) ?

1. Question




2. Solution

Data and sources

 Calorie in 100 mL of Red Bull: 46 kcal

 Higgs boson mass: 125.35 GeV/c²

 1 GeV = 3.8293 × 10⁻¹⁴ kcal

$$N = \frac{125.35 \times 3.8293 \times 10^{-14}}{46 \times 3.55} = 10^{-13.53} \text{ RedBull}$$