

Additional Captains' Fight 2

FPT 2018
9-10th February



1 Question

2 Solution

You have 30 seconds to solve the following question:

What is the number of order of magnitude between the Planck time and the age of the Universe ?

1 Question

2 Solution

One more slide for the solution !

- $T_{\text{Planck}} = \sqrt{\frac{\hbar \mathcal{G}}{c^5}} \simeq 5 \cdot 10^{-44} \text{ s}.$
- $T_{\text{Universe}} \simeq 13,8 \text{ Gy} \simeq 4 \cdot 10^{17} \text{ s}.$

$$\Rightarrow \frac{T_{\text{Universe}}}{T_{\text{Planck}}} \simeq 10^{61}.$$