



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 width of the Kuiper belt
(distance minimum-maximum) in
unit of Bohr radius ?

1. Question



2. Solution

Data and sources



Kuiper belt width : 25 ua



1 ua = 149.597×10^9 m



Bohr radius : 52.917×10^{-12} m

$$N = \frac{25 \times 149.597 \times 10^9}{52.917 \times 10^{-12}} = 10^{22.85} \text{ Bohr radius}$$