## Bonus Problem (28Nov22)

Name: your name

Rubric for each assignment:

Context	Points
Precision of the answer	80%
Answer Markdown readability	10%
Code readability	10%

## Guidance:

- This is an individual homework.
- Upload your answers in the Blackboard submission portal as:

lastname-firstname-homework-xx.pdf or lastname-firstname-homework-xx.ipynb

## Table of Problems

• Bonus Problem (100 pts) Fraction of neutron slowing down.

## Bonus Problem (20 pts)

Neutrons scatter elastically at 1 MeV. After one scattering collision, calculate the fraction of the neutrons that will have energies of less than 0.5 MeV when they scatter from the following materials:

1)(5 pts) Hydrogen.

Answer:

2)(5 pts) Deuterium.

Answer:

3)(5 pts) <sup>12</sup>C.

Answer:

4)(5 pts)  $^{238}$ U.

Answer: