

## Welcome to the MASTERCLASSES QUIZ!

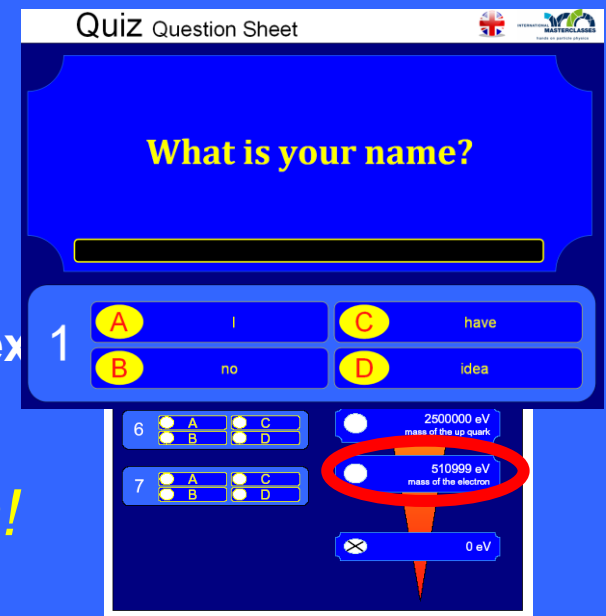
### Rules of the Game

- 7 questions, 4 answers to choose (A,B,C,D)
- **mark your answer on your answer sheet before the timer ends!**
- moderators will then reveal the correct answer
- if you have answered correctly, you may **tick off the next energy level**

*Let's check which energy level you can reach!*

*Please note:*

- *this quiz is for fun, not for competition!*
- *we won't compare results*



The screenshot shows a digital quiz interface titled "Quiz Question Sheet". The main question is "What is your name?" with a text input field below it. Below the question are four multiple-choice options: A: I, B: no, C: have, and D: idea. Below this, there are three question cards for energy levels 6, 7, and 8. Each card has four radio button options (A, B, C, D). The 6th level question is "2500000 eV mass of the up quark". The 7th level question is "510999 eV mass of the electron", which is circled in red. The 8th level question is "0 eV".

**Welcome to the  
MASTERCLASSES QUIZ!**

**Ready?**

# Quiz Question Sheet





**Which particle is the mediator of the Strong Force?**



1

A

Neutralino

C

Gluon

B

Snail

D

Pigsino

# Quiz Question Sheet





**What percentage  
of all the matter and energy  
in our Universe do we know  
almost nothing about?**



2

A

13%

C

100%

B

96%

D

32.8%

# Quiz Question Sheet





**Which of the following is an experiment at the LHC?**



3

A

ALICE

C

OPAL

B

KATE

D

FLUFFY



# Quiz Question Sheet





## What is the Higgs Boson postulated to do?



4

A

Solve Sod's law

C

Solve the origin of the Big Bang

B

Solve the origin of Dark Matter

D

Solve the origin of mass

# Quiz Question Sheet





**Which of the following technological innovations was invented at CERN?**



5

**A**

The Teleporter

**C**

4G mobile phones

**B**

The World Wide Web

**D**

Sharks with lasers on their heads

# Quiz Question Sheet





**During a long run, where the proton beams might circulate for up to 10 hours, how far will these protons have travelled?  
(if they have not interacted of course)**



6

**A**

The distance from CERN to the sun and back

**C**

The distance from CERN to Neptune and back

**B**

The distance from CERN to the center of Geneva

**D**

The distance around the circumference of the Earth

# Quiz Question Sheet





## FINAL QUESTION:

Which elementary particle is most common in your body?



7

A

Up Quark

C

Electron

B

Down Quark

D

Bottom Quark



## End of Quiz

*What's your energy level?*

*We hope you had fun!*