

## 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*

Quiz Question Sheet

What is your name?

1

A	I	C	have
B	no	D	idea

6

<input type="radio"/> A	<input type="radio"/> C
<input type="radio"/> B	<input type="radio"/> D

7

<input type="radio"/> A	<input type="radio"/> C
<input type="radio"/> B	<input type="radio"/> D

2500000 eV  
mass of the up quark

510999 eV  
mass of the electron

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



**Which two people won the  
Nobel Prize for Physics in 2013?**



4

**A**

Stephen Hawking & Marie Curie

**C**

Francois Englert & Albert Einstein

**B**

Peter Higgs & Stephen Hawking

**D**

Peter Higgs & Francois Englert

# 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!*