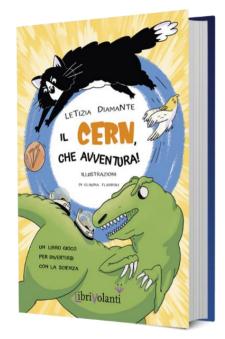
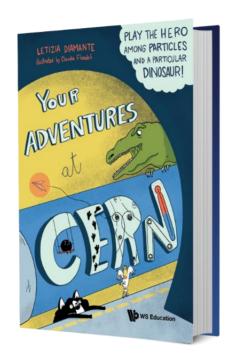
Your adventures at CERN Letizia Diamante







Available on Amazon (https://amzn.to/3ONu13R), online stores and at CERN (CERN souvenir shop in building 33/reception and library bookstore)

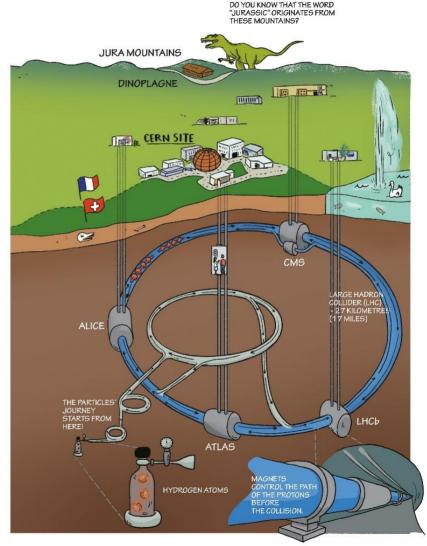


The setting is a unique place: a scientific wonderland





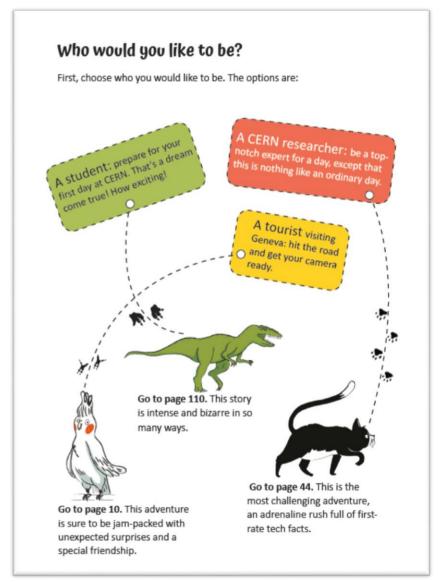


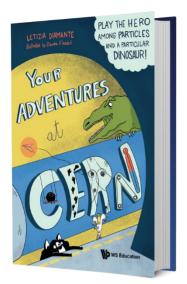


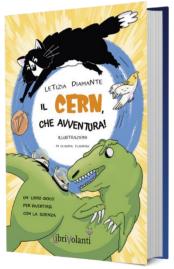
Illustrations by Claudia Flandoli

Mission

- Having a **fun** and interactive reading time ©
- Familiarising with particles and the unsolved mysteries of the universe
- Encouraging curiosity beyond what readers learn/learned at school
- Producing a visually interesting book
- Attaching science to three fictional adventures (gamebook, choose-yourown-adventure format)







Your adventures at CERN

As soon as you open this book, YOU become the main character!

You will be catapulted to **CERN**, one of the most famous laboratories in the world –

🖈 a real scientific wonderland 🛠

of underground tunnels, massive experiments and technological marvels.

You can choose to play the role of a researcher, a student or a tourist, but keep your eyes open for a threatening dinosaur... Is it coming from the nearby Jura Mountains, the same place that gave Jurassic its name?

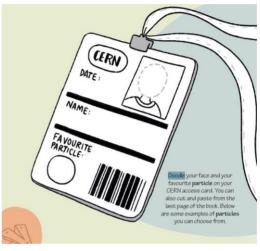
Prepare yourself for a rather bizarre adventure filled with loads of brain-tickling facts about particles and science wonders. Unfold the story, explore the unsolved mysteries of the Universe, and most importantly, have fun with the games and quizzes!

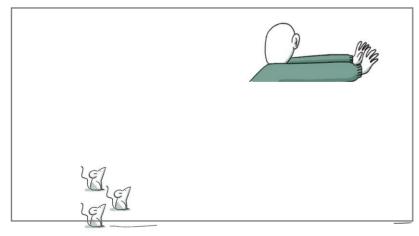
Are you ready to face the huge prehistoric beast and discover the secrets of tiny particles?



Everybody can feel included!





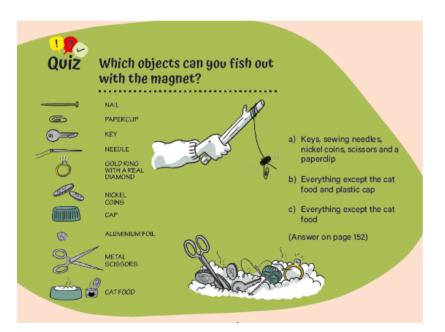




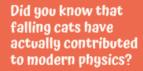
«Your adventures at CERN» «II CERN, che avventura!»

includes

- 3 adventures
- 3 recipes (bonus material)
- A glossary written by the cat Schrödy
- A lot of science-related games, quizzes and fun facts



Science Byte



When dropped from upside down, cats are able to turn super fast, without any outside force, and land perfectly on their feet. In the late 1800s, some physicists thought that falling cats were defying the laws of physics. The mystery was solved only in 1969, and it turns out that cats do not break any physics laws.



When falling, the cat bends at the waist thanks to its ultra-flexible backbone. It forms a V shape and twists the front half of its body first.

Its front legs are pulled in, so its upper body rotates quickly: it's the same trick that figure skaters use to spin faster.

Then the cat flips its back part of the body, tucking its back legs under its body and extending its front legs.

No problem for Schrödy! He lands uninjured!

50

Games and activities







Tip: Build your own LHC tunnel with little bricks.

Curiously CERN

Itsy-bitsy particles, giant detectors



Accelerators for a myriad of uses

Curiously CERN

The biggest "SUPER freezer" in the world



170 pages packed with fun activities ©

Book-related activities



Science festivals

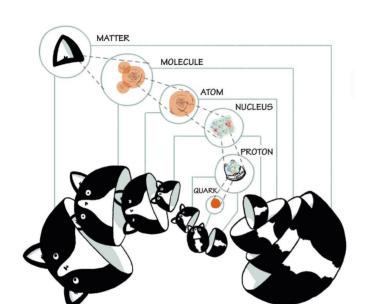
Museums
Schools
Target: 9-10 years old and above
Adults love it too ©



Free activity sheets related to the book and in ENGLISH, FRENCH and ITALIAN will be available on the IPPOG website.

(Now available on letiziadiamante.com)

Activity sheet: Build a MATTERyoshka



















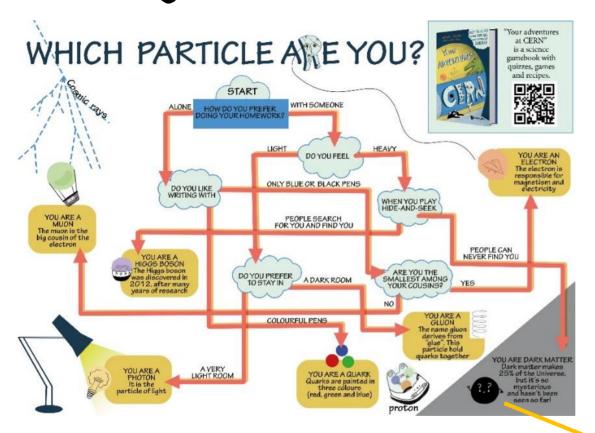


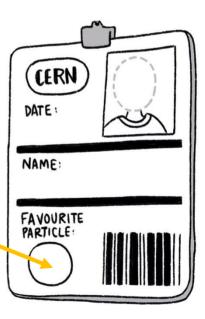




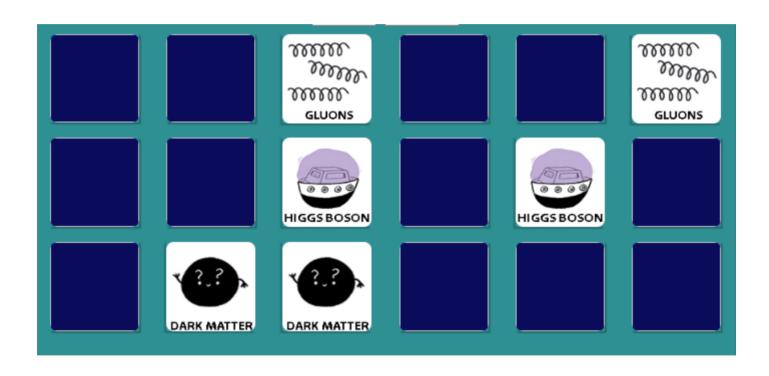


Activity sheet: Test and "access card"



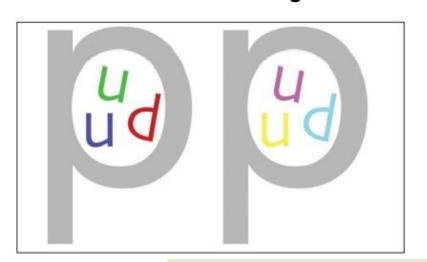


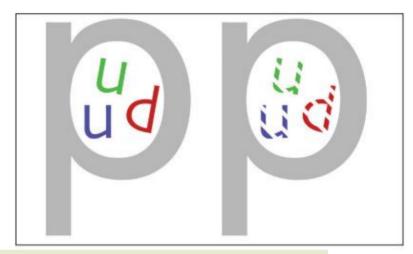
Particle Memory

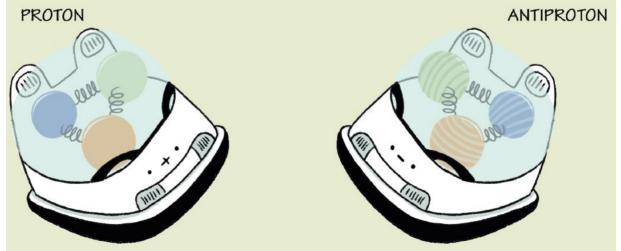


Available on: https://letiziadiamante.com/index IT.html?

How to represent antiparticles?







Wiener, Gerfried J., Sascha M. Schmeling, and Martin Hopf. "An alternative proposal for the graphical representation of anticolor charge." *The Physics Teacher* 55.8 (2017): 472-474.

Magnetism: Mini-accelerator controlled by magnets

Collision point



Particle accelerator (LHC)

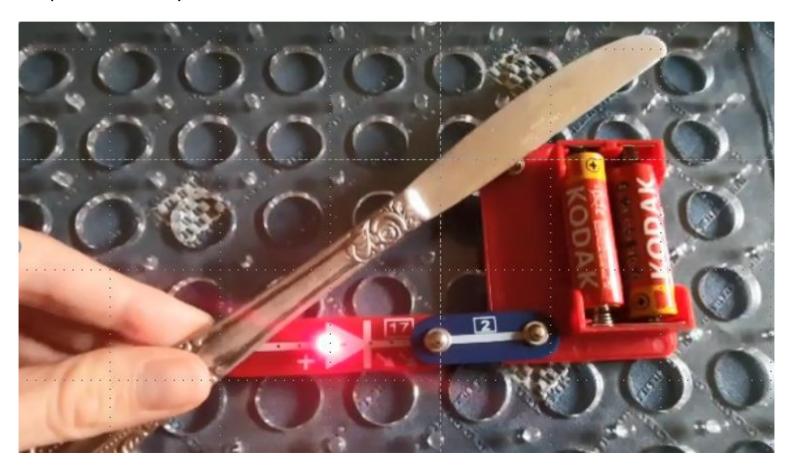


Proton (with a hidden magnet inside)

Magnet to guide the protons

Conductivity: Experiment

- Why are metals conductive?
- Superconductivity can be mentioned.



Temperature: The extreme thermometer game





Absolute zero -273,15°C

LHC

Space

0°C

The Sun



Guinness record in ALICE (CERN)

Thank you very much!

Social media, feedback

Twitter and Instagram: @letiziadiamante

Facebook page and Pinterest: @scientificwonderland

Youtube

Website <u>www.letiziadiamante.com</u> -> contact form



