

#### Our team

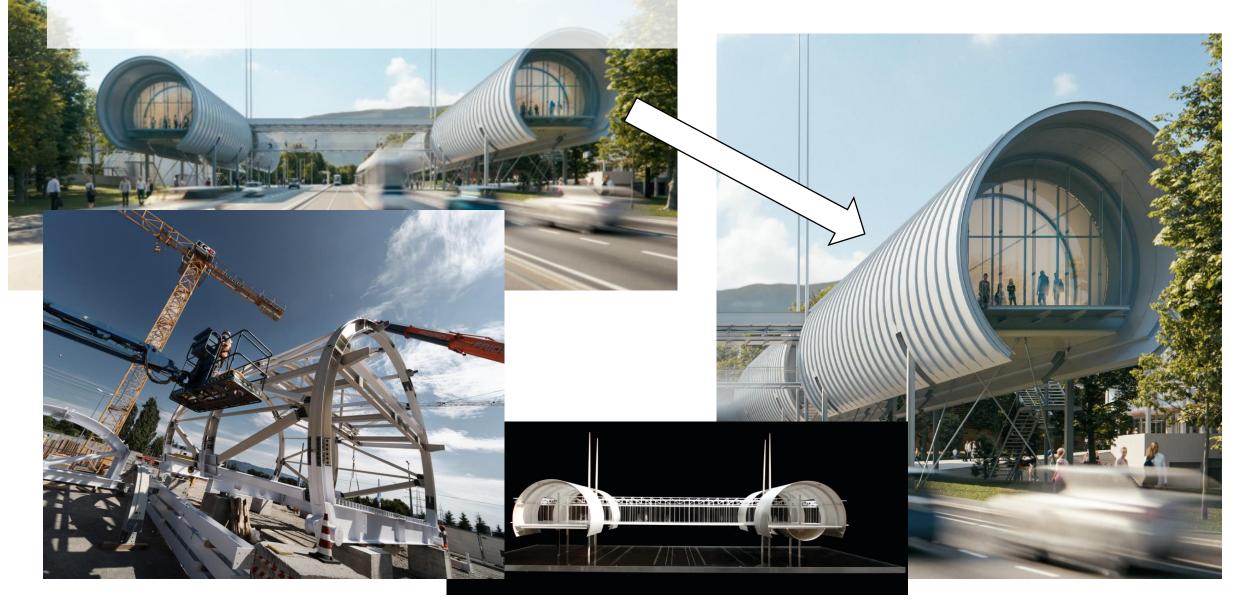
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Ph.D student in science communication
Design & Technology MFA
Design degree + Bachelor of Arts in Design

Daria Dvorzhitskaia
Science Communication Researcher
CERN Exhibitions Team

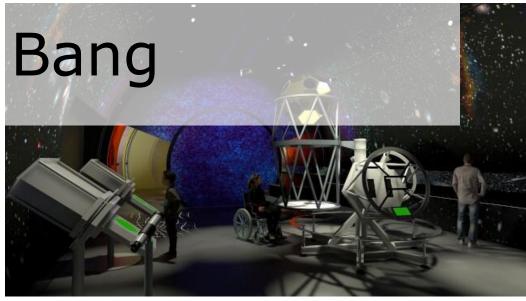
BSc in Science Communication, MRes in Master of Research

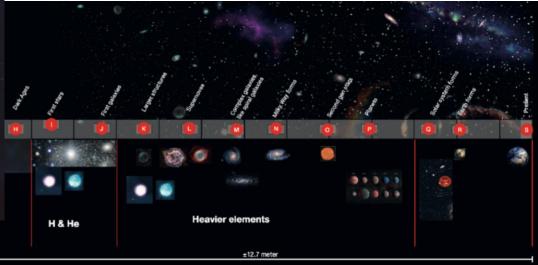






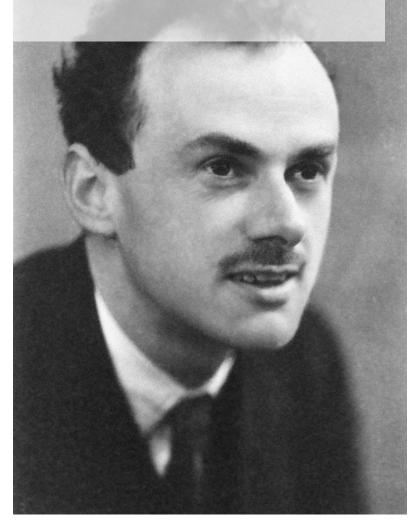






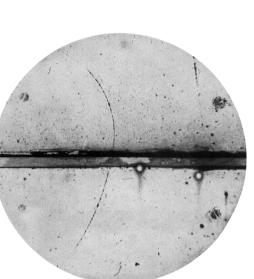
## Antimatter - Prediction

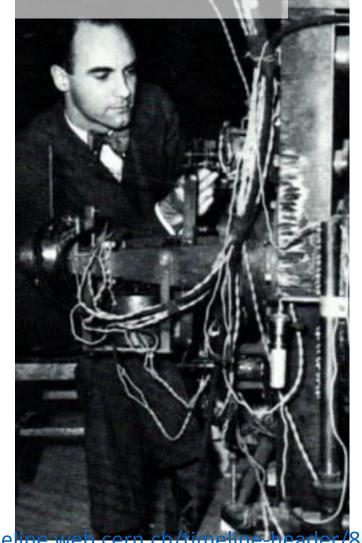
- Antimatter = matter composed of antiparticles
- Reversed charge
- Was first predicted in 1928 by Paul Dirac
- Combined quantum theory and Einstein's special relativity



## Antimatter - Discovery

- 1932 Carl Anderson discovered the first antiparticle
- Studied showers of cosmic particles in cloud chamber
- Saw a track left by "something positively charged, and with the same mass as an electron"
- He called them "positrons" for it's positive charge

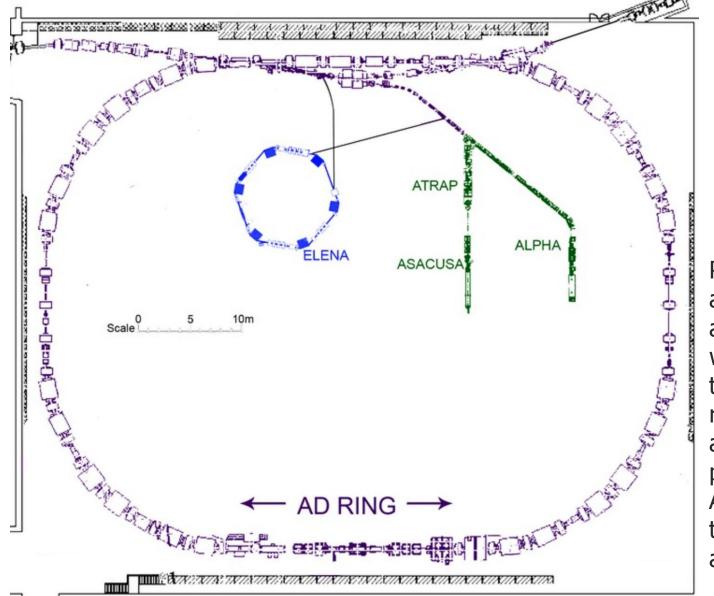




https://timeline.web.cern.ch/timeli

Antiproton Decelerator (AD) - CERN

The BASE collaboration is developing a transportable antiproton trap to make higher-precision measurements of the properties of antimatter

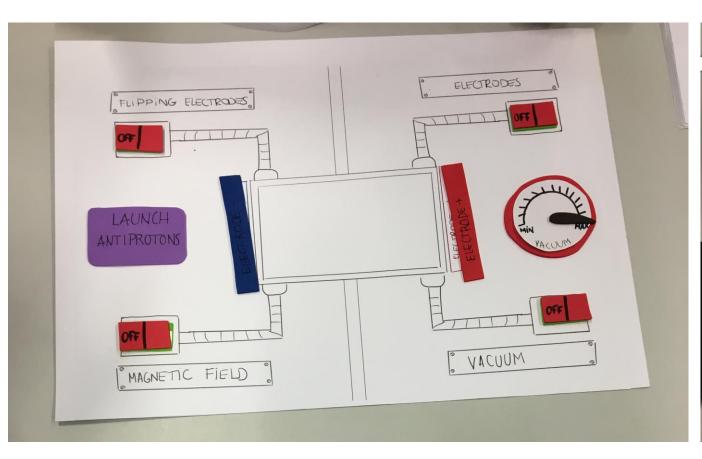


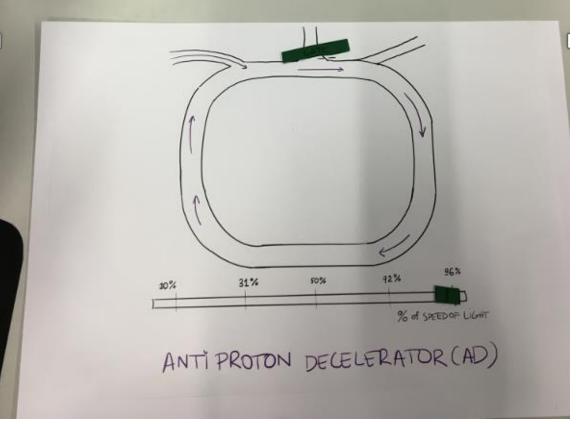
Penning-trap (tiny accelerators): a system, which will feature a first trap to receive and release the antiprotons produced at the AD, and a second trap to store the antiprotons.

# The Antimatter Trap Game prototype



## The Antimatter Trap Game prototype





# The Antimatter Trap Game prototype process







### What have we learned?

