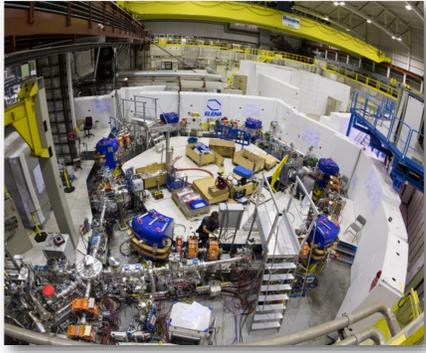
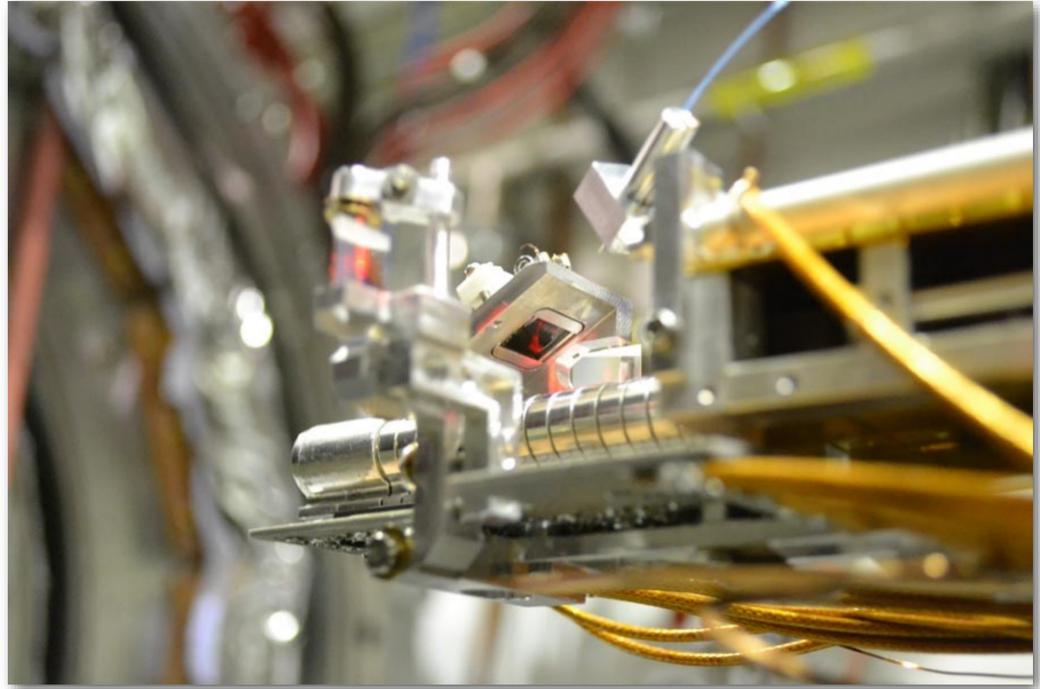


Accelerators Validating Antimatter Physics

2



1



3



4



5



6



1

Antimatter Matters

AVA paves the way for beyond state-of-the-art experiments with low energy antimatter beams. It involves R&D into facility design, advanced diagnostics and novel experiments.

2

ELENA

The extra low energy storage ring ELENA at CERN is in the focus of all AVA R&D. Our Fellows help optimize the performance of this unique machine and realize extended secondments at CERN.

3

Project Start

All project partners met in Liverpool at the beginning of 2017 to launch this new 4 M€ project and discuss the R&D plans for all 15 Fellows. This started a very successful international recruitment campaign.

4

Project Communication

All project results will be communicated internationally online via the project website and social media, as well as in print. A leaflet is already available and a full brochure will be released in early 2018.

5

AVA - The Girl

The project was named after the beautiful girl Ava Scott from Warrington. Ava sadly lost her battle against an aggressive cancer in 2013.

6

Discoveries included

AVA R&D targets a number of fundamental physics questions: Why is there a matter-antimatter asymmetry in the universe? What is the effect of gravity on antimatter? How can we understand antiprotonic atoms?



<http://www.marie-curie-day-2017.org>

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