







Overview





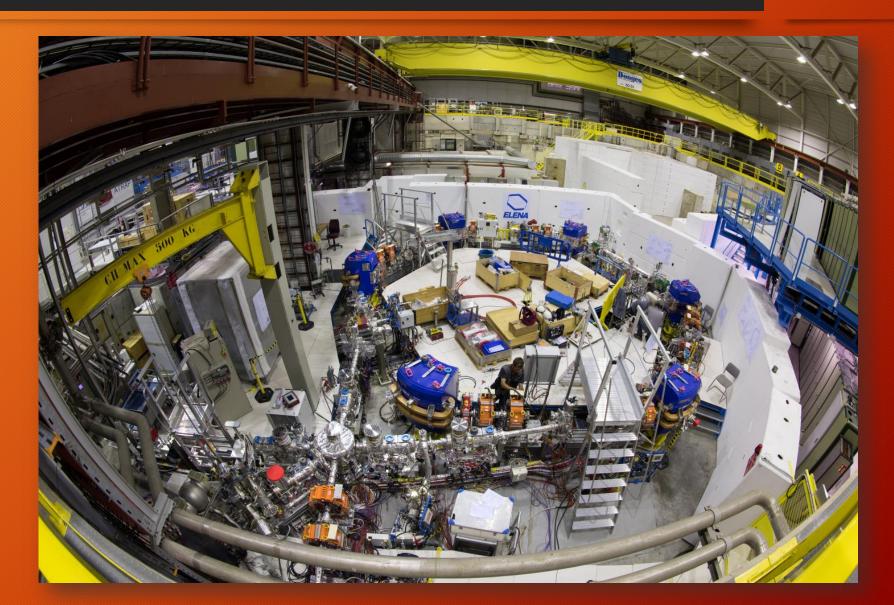
Background

Research

AVA Events

ELENA - A fantastic opportunity





,Classic' PhD training in Europe



- Focus on academic career path;
- Scientific papers as key quality indicator;
- Training through (often blue sky) research;
- Very little training in complementary skills researchers often need to be (re)trained on the job;
- Students or researchers?

Evolution: Initial training networks (ITNs)

Marie Curie ITNs



- Introduced in EU Framework Programme
- 2016: 100,000 Marie Curie researchers;
- Provides support for early career and experienced researchers (young Postdocs).

<u>Goals</u>

- Improve employability of researchers;
- Better training through demonstrated international mobility;
- Maintain Europe's leadership position in R&D.

Accelerator Beam Diagnostics





Novel DI agnostic Techniques for future particle Accelerators:
 A Marie Curie Initial Training NET work >>









Marie Curie Networks





(Beam Diagnostics, Physics)
4.2 M€, 32 partners



(Laser Applications, Engineering) 4.6 M€, 38 partners





(Accelerator Optimization, Physics) 6 M€, 35 partners



(Medical Accelerators R&D, Life Sciences)
4.0 M€, 24 partners



AVA is first ITN on antimatter research. Started 1 January 2017.

What is AVA?



- Funding for 15 Fellows
- One of the largest Marie Curie networks in this call with a budget of around 4 M€
- Gives industry an important role in training the next generation of scientists!
- Allows for organizing (large) number of events.
- Recognized importance of R&D into fundamental physics & accelerator science at European level!

Beneficiaries



























Partner Organizations

































AVA Fellows

































AVA Research







New beam handling techniques



- Online diagnostics
- Improved detectors



- Experiments: Novel cooling schemes
- Spectroscopy on antihydrogen.

Training



- Local training by host:
- Network-wide schools on antimatter research;
- Intra-network exchange of researchers;
- Secondments to partners from industry;
- Training in complimentary, careers and media skills
 - Motivation: *Ideal* Training.

Training - at each Host



- In accordance with national PhD regulations
- Provide trainees with broad skills base
- Expose to other sector
- Promote knowledge exchange and collaboration across the network
- 100% focus on research project

Researcher Skills Training



- Project-specific part
 - Presentation skills
 - Scientific writing
 - Project management



- Generic skills through outreach project
 - Team working
 - Proposal writing
 - Peer review
 - Working under (time) pressure







"I hadn't really thought of myself as a project manager until today!"

Media Skills Training













Watch the video!

You Tube

AVA Events



- International Schools on Antimatter Physics and Fundamental Symmetries, 25-29 June @ CERN;
- Topical Workshops on focused research topics always across the different project Work Packages;
 First one: 15-17 October @ CIVIDEC, Vienna;
- Outreach Symposium on 28 June 2019 to present project to wider public; Final conference in spring 2020;
- Events are open to all Fellows and wider community!



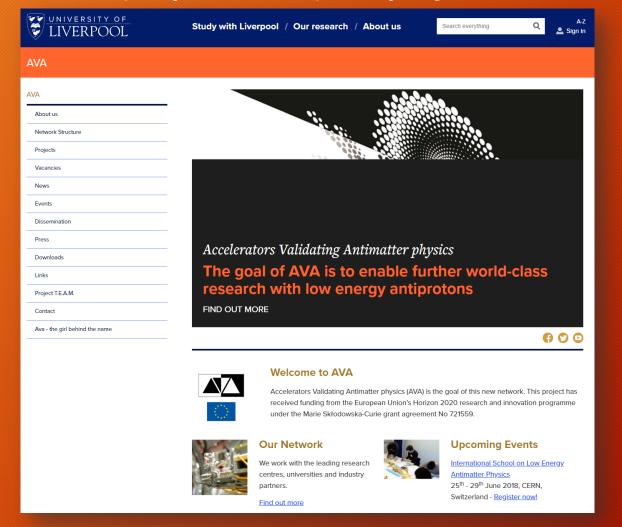




Project Web Site



URL: (http://www.)ava-project.eu



QUASAR Group + CI



MIRROR Newsletter



- Main communication channel of AVA
- Simply send me an email to subscribe!



Quarterly newsletter for the antimatter research community



Summary



- A major European initiative in antimatter research has just started;
- Three work packages address many interesting research challenges;
- There are many opportunities for getting involved.

Spread the word - participate - benefit