



Transnational access to the CERN XBoxes under ARIES

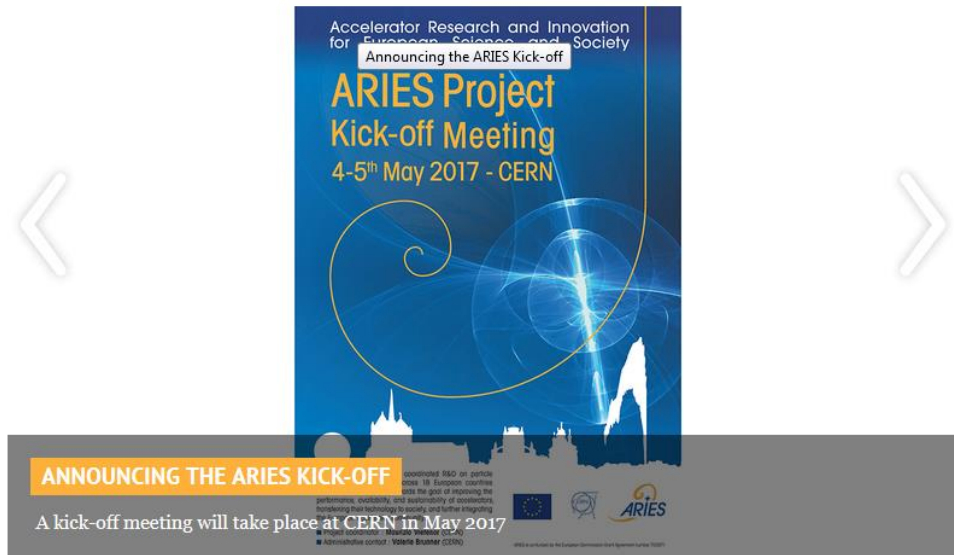


ARIES – EU funded accelerator R&D




Accelerator Research and Innovation for European Science and Society

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Accelerator Research and Innovation for European Science and Society

Announcing the ARIES Kick-off

ARIES Project Kick-off Meeting
4-5th May 2017 - CERN

ANNOUNCING THE ARIES KICK-OFF

A kick-off meeting will take place at CERN in May 2017

Welcome to ARIES

ARIES is an Integrating Activity project which aims to develop European particle accelerator infrastructures, co-funded under the European Commission's Horizon 2020 Research and Innovation programme.

Over four years, ARIES will work towards improving the performance, availability, and sustainability of particle accelerators, transferring the benefits and applications of accelerator technology to both science and society, and enlarging and integrating the European accelerator community.

ARIES MEETINGS

14 Jun 2017 - 3:00pm
Task 2.2 kick-off discussion

19 Jun 2017 - 3:00pm
ARIES Task 15.1 meeting 2
CERN

26 Jun 2017 - 4:00pm
Task14.5 HTS Meeting
CERN - 112-2-032

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Transnational Access



The ARIES project offers transnational access to 14 different testing facilities across Europe. The programme supports users to conduct testing within five separate domains:

- Magnet testing
- Material testing
- Electron and proton beam testing
- Radiofrequency testing
- Plasma beam testing

Interested parties are encouraged to identify the facility most appropriate for their needs and to check their eligibility before applying.

- ## TransNational Access:
- Supports expanded use of facilities
 - Provides mainly travel and subsistence
 - For the first time XBoxes are a TNA
 - Program runs into 2021



FACILITIES OFFERING TNA

MagNet

Gersemi

HiRadMat

UNILAC M-branch

ANKA

FLUTE

IPHI

SINBAD

VELA

HNOSS

Xbox

APOLLON

LPA-UHI100

LULAL

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Xbox



The high-gradient X-band test facility (left-side view) at CERN (Image: Matteo Volpi)

The Xboxes are klystron-based X band test stands located at CERN in Geneva, Switzerland. The test stands are dedicated to the testing and development of high-gradient accelerating structures and high-power rf components.

At present there are three Xboxes: two with each powered by a 50 MW/1.5 μ s/50 Hz klystron and the third is powered by four 6 MW/5 μ s/400 Hz klystrons combined in pairs.

These Xboxes were constructed and are being used to high-power test the main linac accelerating structures and novel rf components for the Compact Linear Collider (CLIC). The test stands are just as useful for developing high gradient and power structures for X-band FELs, Compton/Thomson sources and as potential RF units in linacs.

Features

- 3 x klystron-based X-band (11.994 GHz) test stands
- 6 x fully powered and instrumented testing slots
- Support infrastructure eg: radiation shielding, water cooling, vacuum etc





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Eligibility

The eligibility for access to the facilities is defined as per Article 16.1 of the Horizon 2020 Grant Agreement ¹.

The **eligibility criteria** are listed below:

Access is provided to selected '**user groups**': teams of one or more researchers led by a **User Group Leader**

- The user group leader and the majority of the users must work in a country other than the country(ies) where the installation is located
 - This does **not** apply where:
 - Access is provided by an international organisation, the Joint Research Centre, an ERIC or similar legal entities.
 - In case of remote access to a set of installations offering the same type of service and located in different countries
 - EU financial support should not be offered to users from the same country where the installation is located. They are eligible to participate in the TNA project, but without EU financial support.
- Users groups comprised of a majority of users which do not work in an EU or associated country ² are eligible. However, their access is limited to 20% of the total amount of access units provided in Annex 1.

Publications

- Only user groups that will disseminate the results generated under the project are eligible, unless working for SMEs.
- If the results are not published in a journal or conference paper, it is mandatory to have them published as an **ARIES note**.
- All ARIES publications, should include the following acknowledgement:



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No 730871.



A very warm welcome

Please contact us if you wish to propose an experiment. There's a formal application procedure but it's easy.

Our TNA work package leader is Roger Ruber (Uppsala University) who is the technical coordinator for the other facility in our TNA, FREIA for superconducting cavities.

Our User Selection Panel members are Kenneth Österberg (University of Helsinki), Jiaru Shi (Tsinghua University) and Slava Yokovlev (Fermilab)

Please consider applying for an XBox access!