

Initiative for Dark Matter in Europe and beyond

The European committee for Future Accelerators (ECFA), the Nuclear Physics European Collaboration Committee (NuPECC) and the Astroparticle Physics European Consortium (APPEC) have established a seminar to allow astroparticle, nuclear and particle physics researchers to peek into each other's activities, called the Joint ECFA-NuPECC-APPEC Seminar (JENAS) at Orsay, in October 2019. The identified overlapping challenges might transform via joint programs into stronger opportunities to further our understanding of nature.

In the spirit of further exploring topical synergies between these disciplines, APPEC, ECFA and NuPECC have issued a call for novel Expressions-of-Interest (EOI), seeking bottom-up and community thoughts expressed in a non-binding EOI for further discussion within the APPEC, ECFA and NuPECC committees or consortia. These thoughts can revolve around potential synergies in technology, physics, organization and/or applications. The submitted Expressions of Interest can be found here: <http://nupecc.org/jenaa/?display=eois>.

The initiative for Dark Matter in Europe and beyond (iDMEu) is such an expression of interest, which collects more than 300 signatories to date, including Snowmass participants. It aims to create a permanent and common platform to exploit synergies and complementarities in dark matter searches across different communities, as a broad and common approach to dark matter research is necessary given the nature of this challenge. We will discuss the origin of this initiative and its possible future evolution, as well as its plans to build an online meta-repository for dark matter resources.

Primary frontier topic

General

Primary authors: DOGLIONI, Caterina (Lund University); EOI PROPONENTS, iDMEu

Presenter: EOI PROPONENTS, iDMEu

Session Classification: Community Town Hall