

CRISTIANO GALBIATI
ASTROCENT MEETING
WARSAW, JANUARY 29-30, 2019

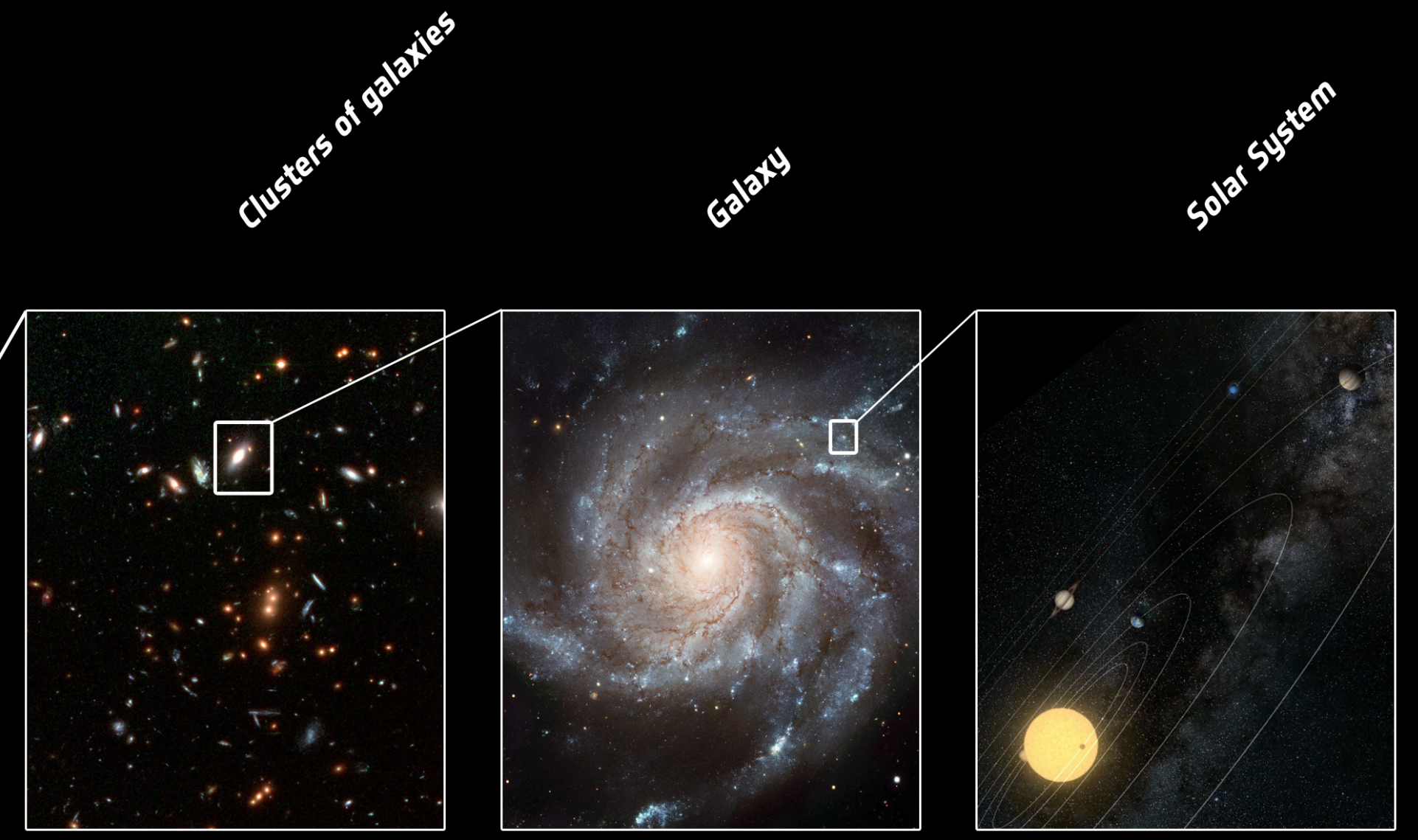
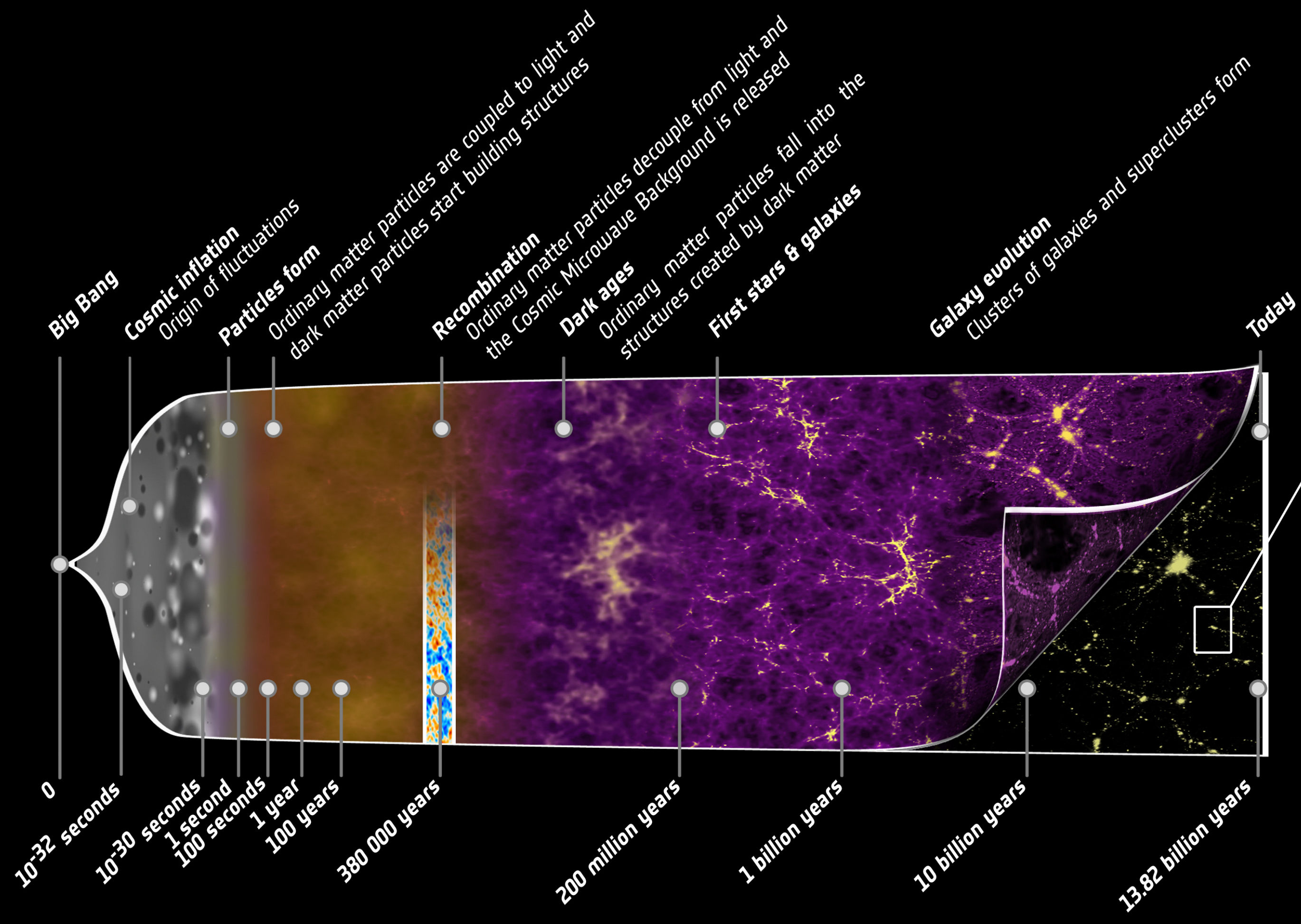
ASTROCENT AND THE DARKSIDE/ARGO PROGRAM

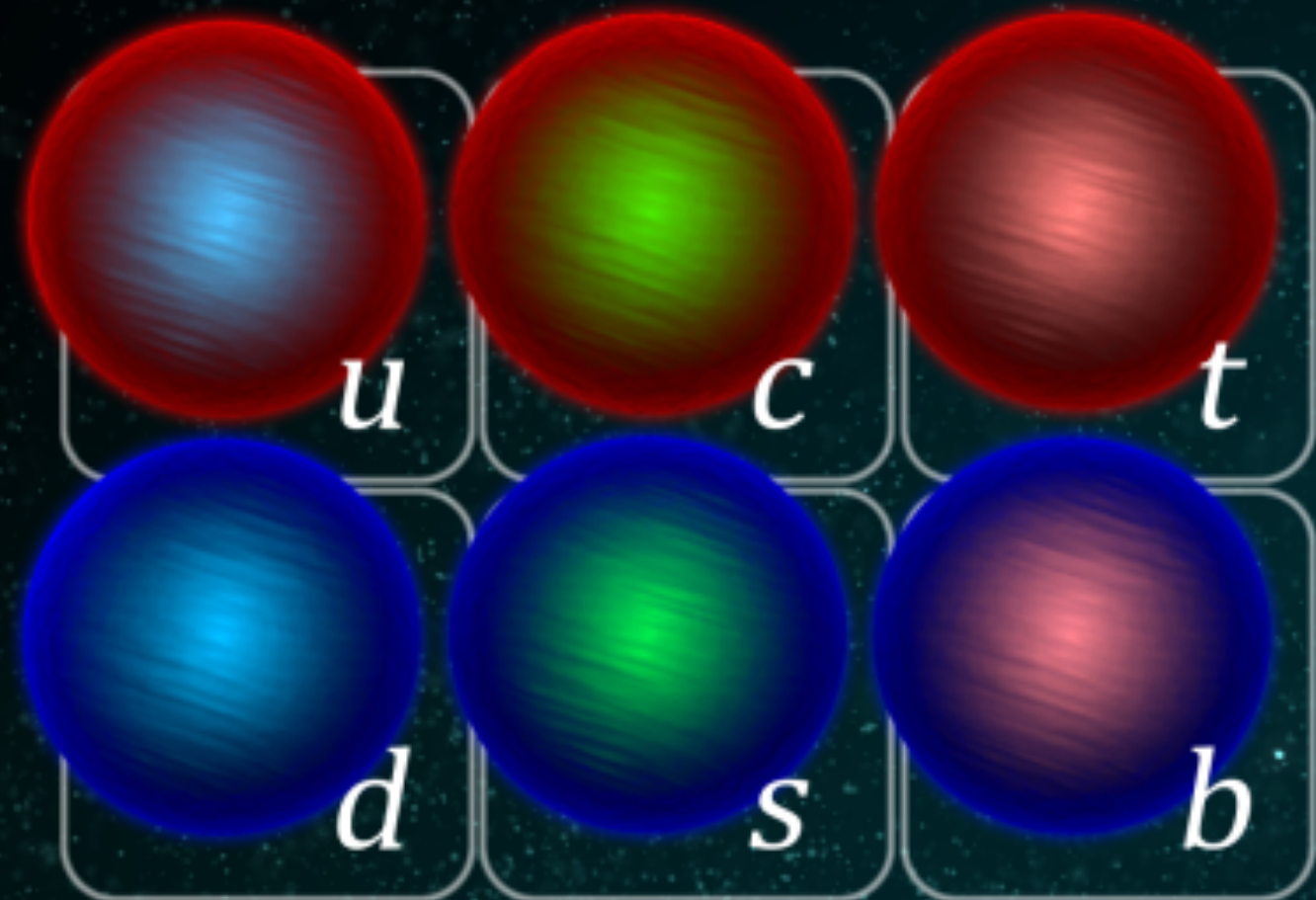
THE SCIENCE PERSPECTIVE

- The two dark entities dominating the Universe, dark matter and dark energy, do not fit in the Standard Model
- Two big open questions at the intersection of particle physics and cosmology
- Neutrinos may play a big role
- Gravitational waves will enable a new type of observational astronomy reaching very early stages of development of the Universe

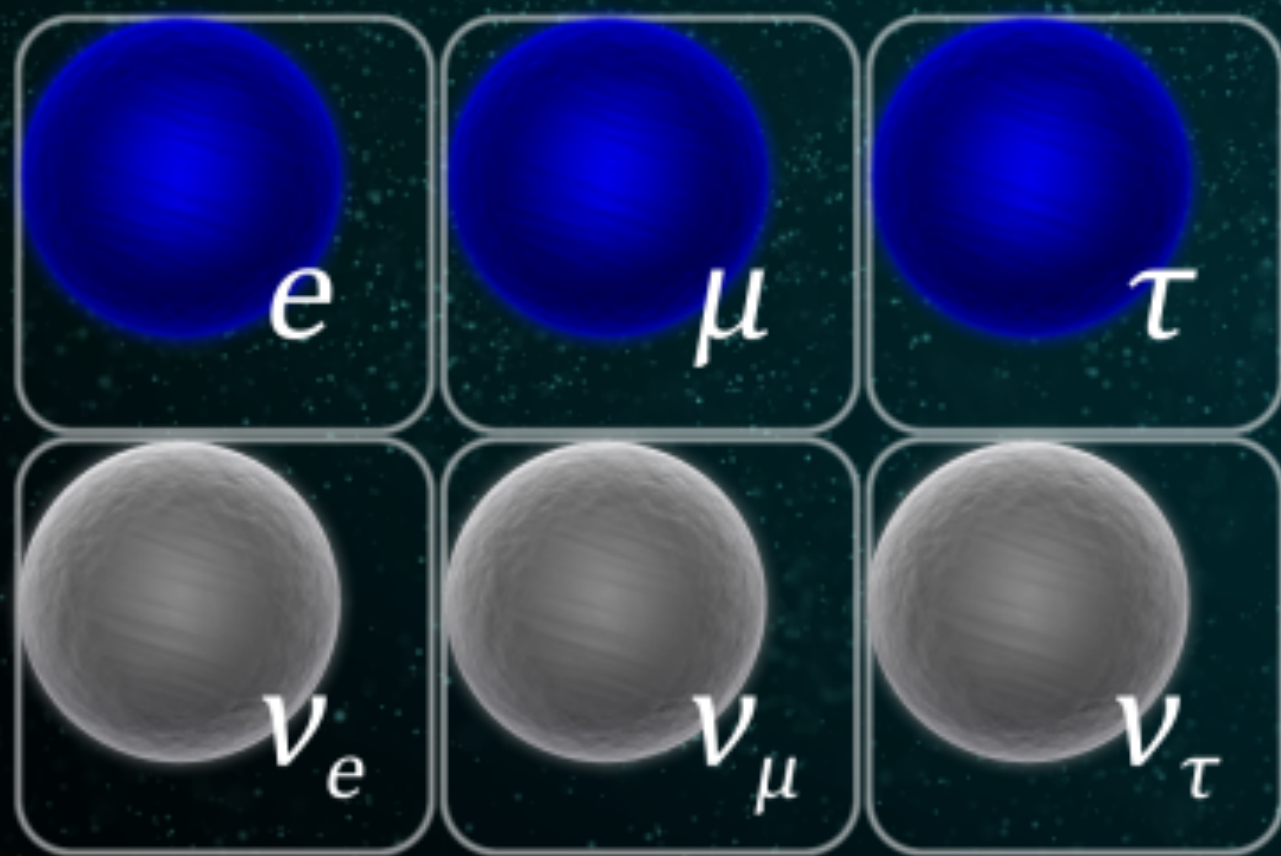
ASTROCENT

- A very special place to lead the European program of investigations in new frontiers





Quarks



Leptons

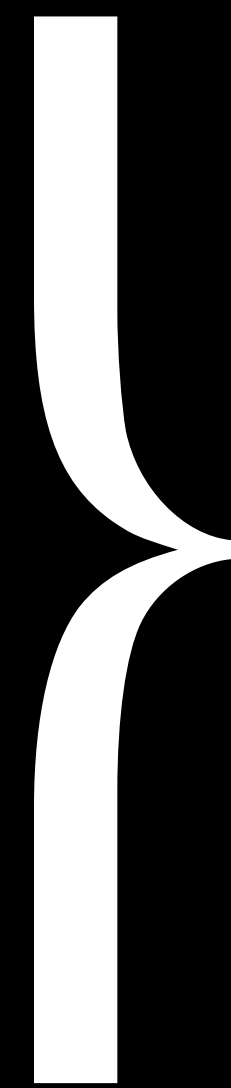


Higgs boson

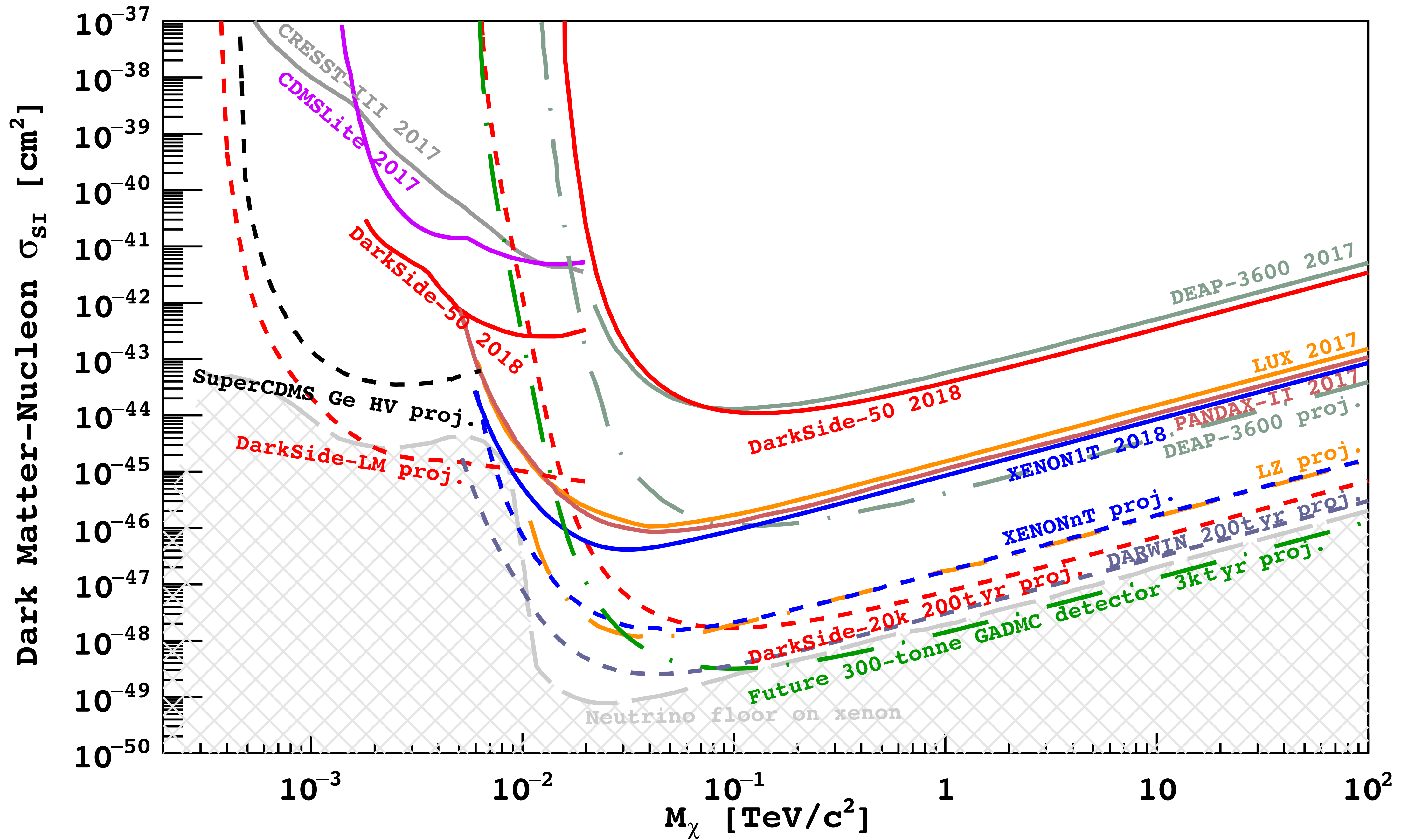


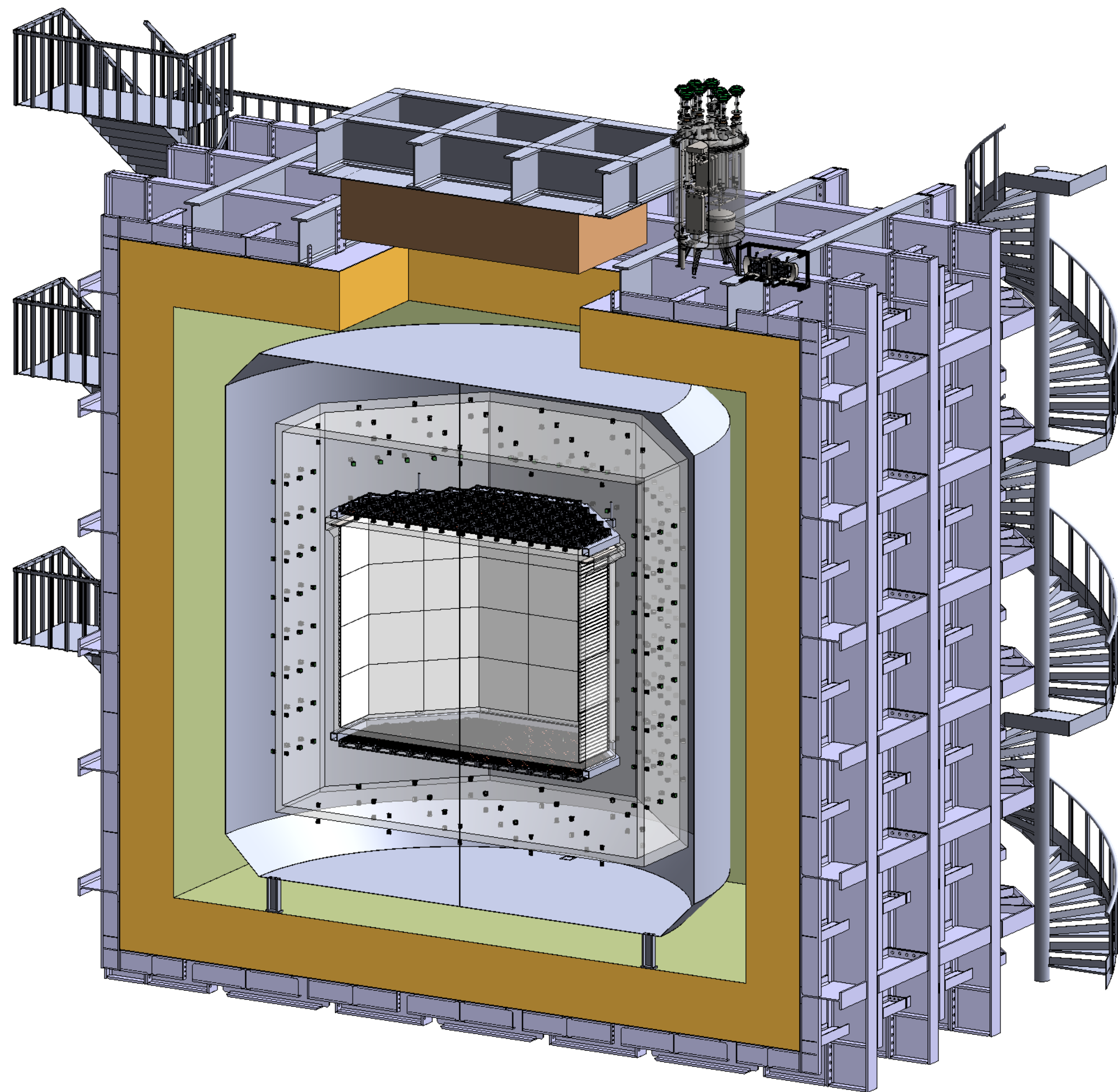
Forces

ArDM
DarkSide
DEAP
MiniCLEAN



The Global Argon
Dark Matter
Collaboration





THE END

