

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

ASTROCENT AND THE DARKSIDE/ARGO PROGRAM

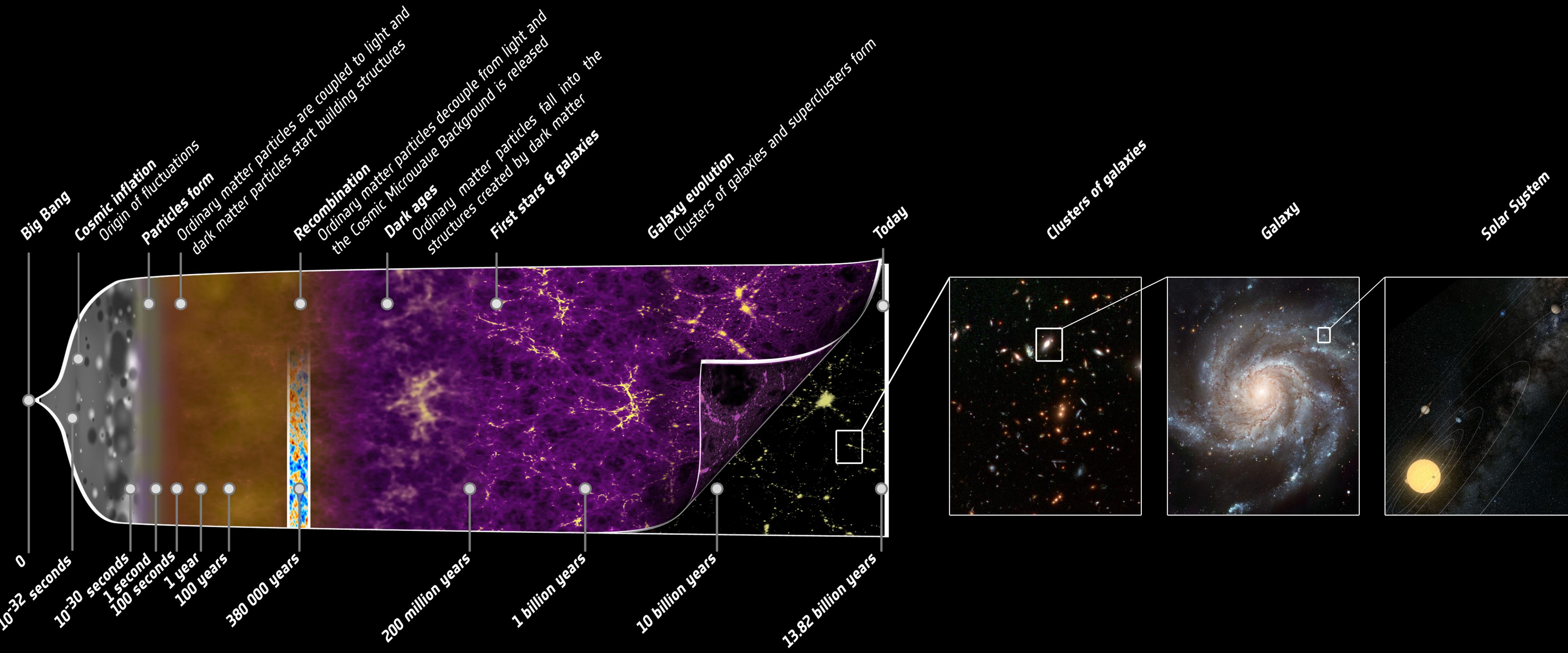
THE SCIENCE PERSPECTIVE

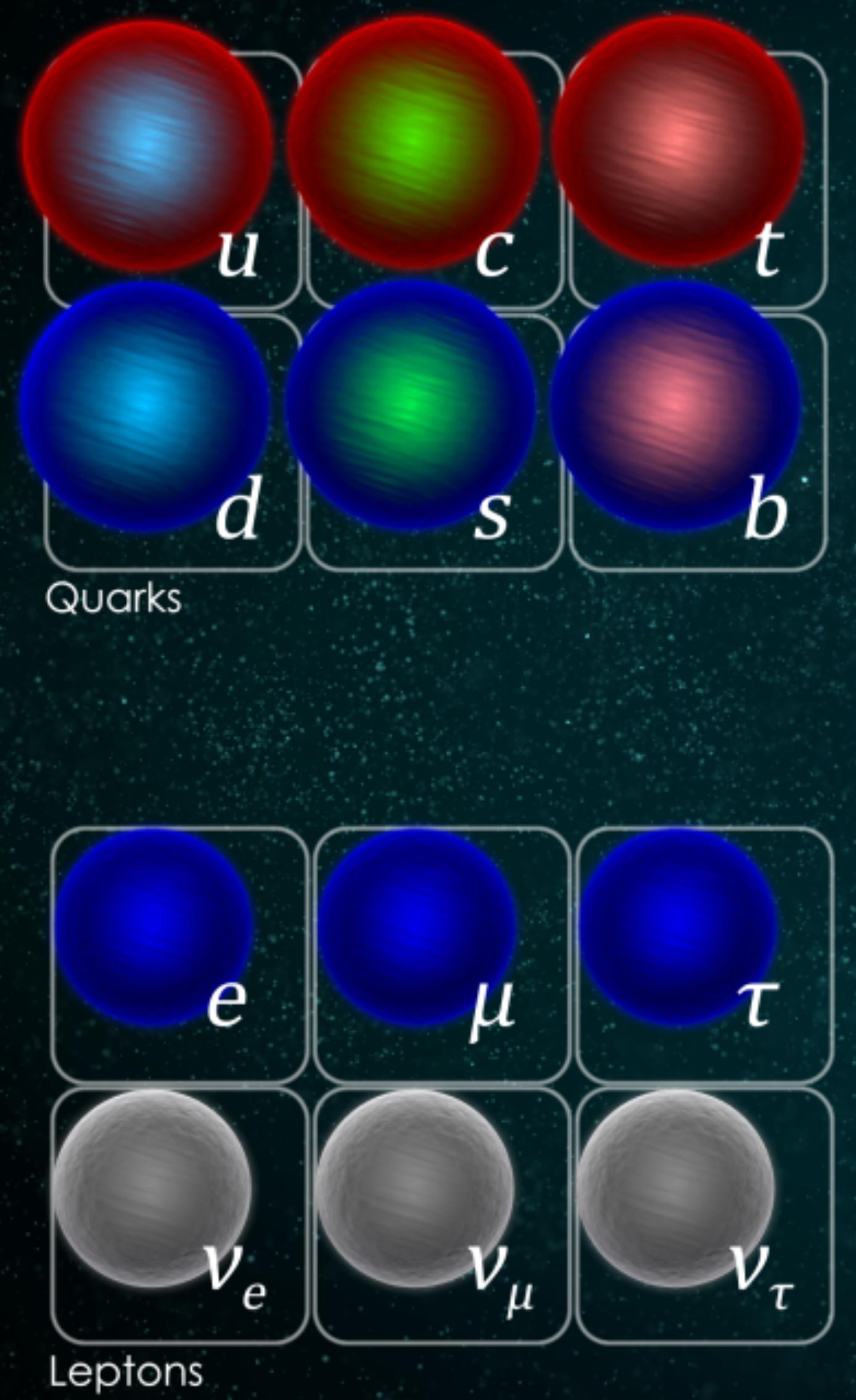
- The two dark entities dominating the Universe, dark matter and dark energy, do not fit in the Standard Model
- Two big open questions at the intersection of particle physics and cosmology
- Neutrinos may play a big role
- Gravitational waves will enable a new type of observational astronomy reaching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

ASTROCENT

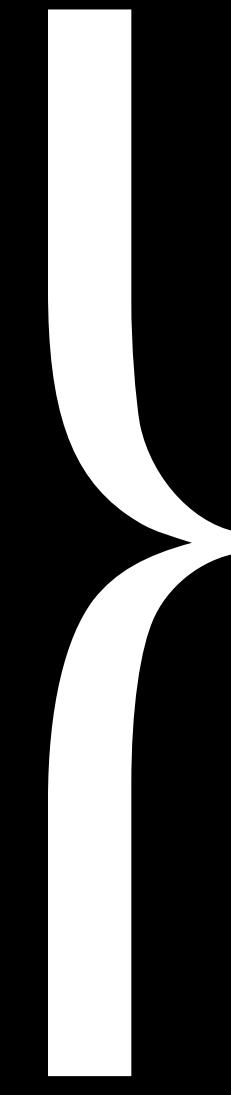
- A very special place to lead the European program of investigations in new frontiers

NASA

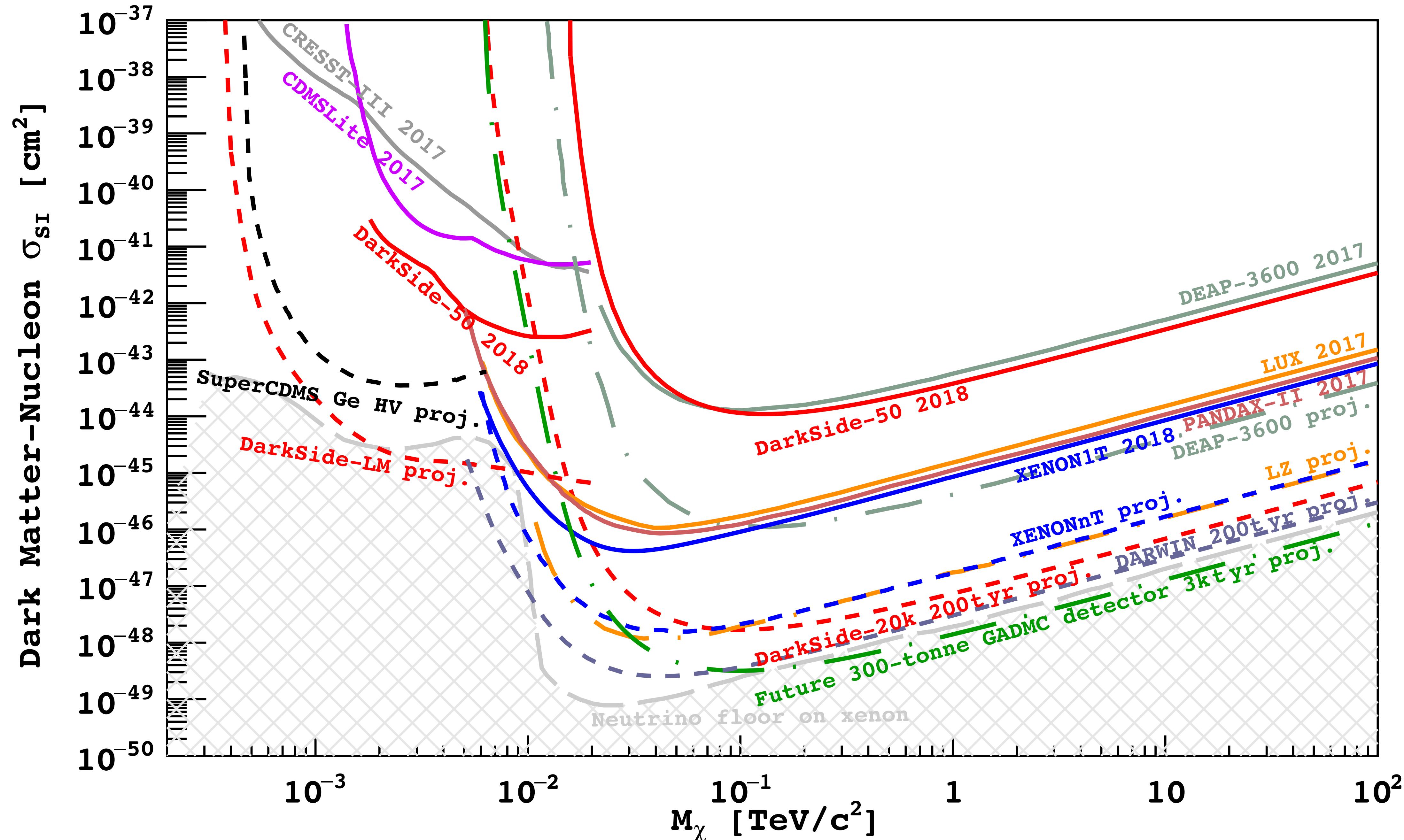


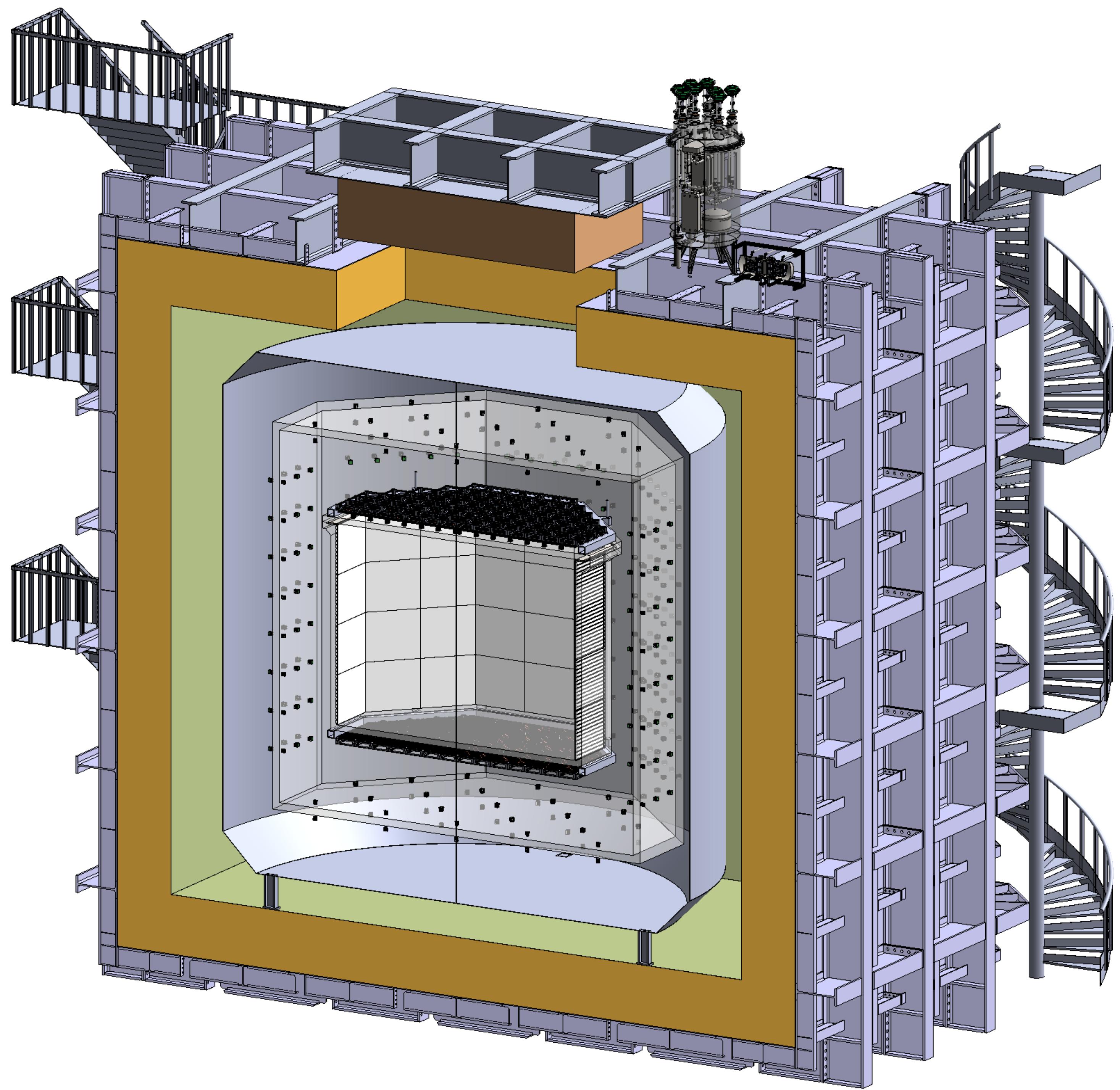


ArDM
DarkSide
DEAP
MiniCLEAN



The Global Argon
Dark Matter
Collaboration





A nighttime photograph of a construction site. In the foreground, a worker wearing a white hard hat and dark clothing stands next to a small white vehicle, possibly a generator or pump. The ground is paved with yellow rectangular tiles. Behind the worker is a massive wall composed of numerous vertical panels, each with a grid pattern of smaller squares, reflecting the surrounding lights in a golden-yellow glow. The wall extends into the background, creating a sense of depth. A single bright light fixture is mounted on top of the wall. The overall atmosphere is industrial and dramatic, with the artificial light contrasting against the dark night sky.

THE END