Large Dark Matter Experiments as Neutrino Telescopes

- DM searches in (upcoming) large direct detection experiments (xenon/argon) are poised to encounter irreducible neutrino background due to coherent neutrino-nucleus scattering (CEvNS), the *"neutrino floor"*
 - \rightarrow a curse for DM detection, but an opportunity for neutrino studies!
- With CEvNS (& also electron neutrino scattering), start thinking of large DM experiments as "effective neutrino telescopes"



- Complementarity with standard neutrino experiments across many topics: solar neutrinos, atmospheric neutrinos, (pre-)supernova neutrinos, geo-neutrinos, etc.
- Dark matter and neutrino communities are often disjoint....

 \rightarrow a great opportunity for synergistic effort on neutrino frontier !



