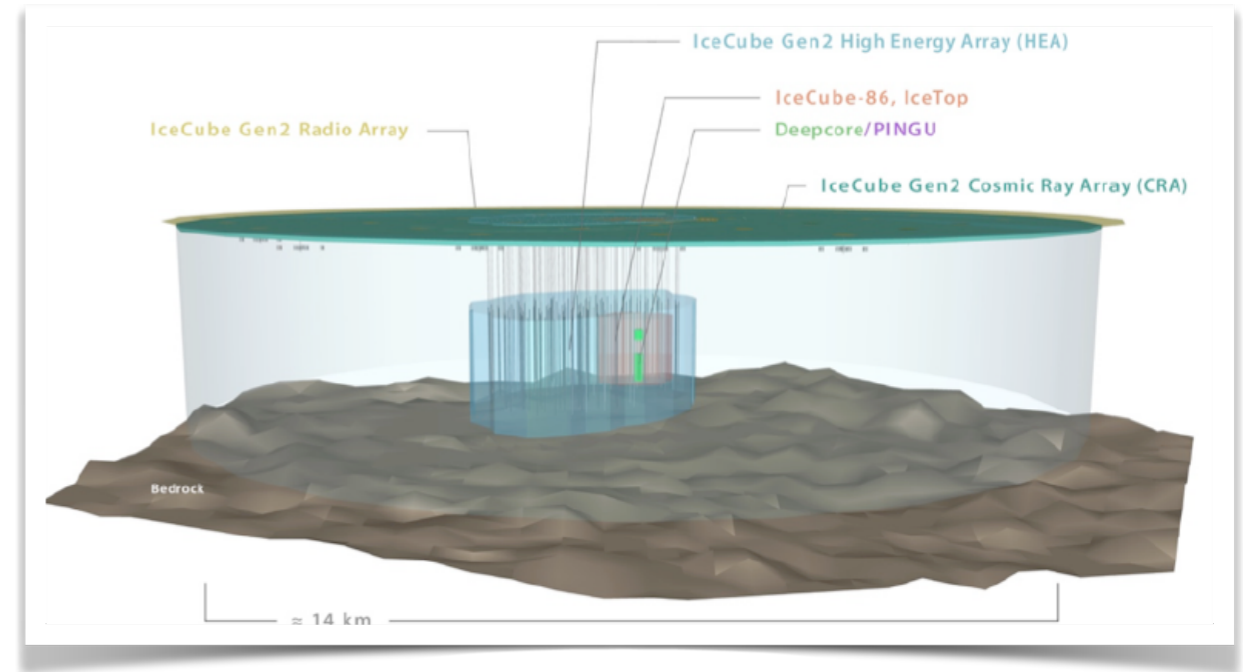
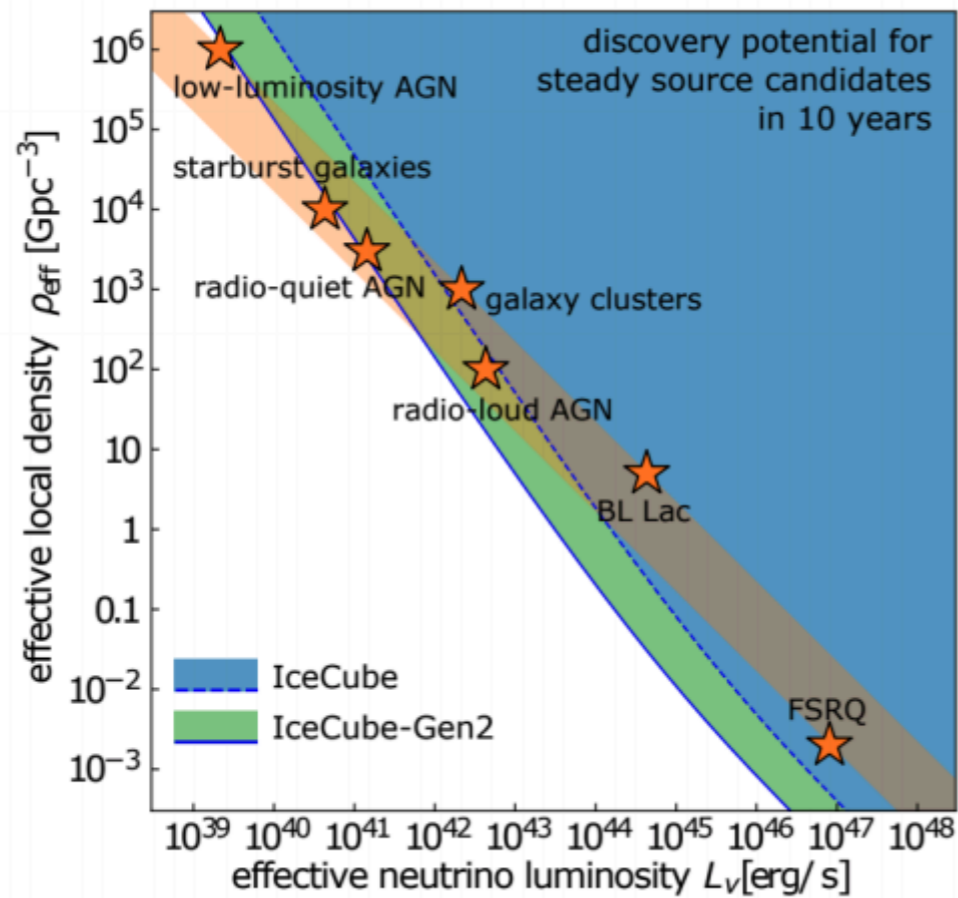


IceCube-Gen2

IceCube-Gen2

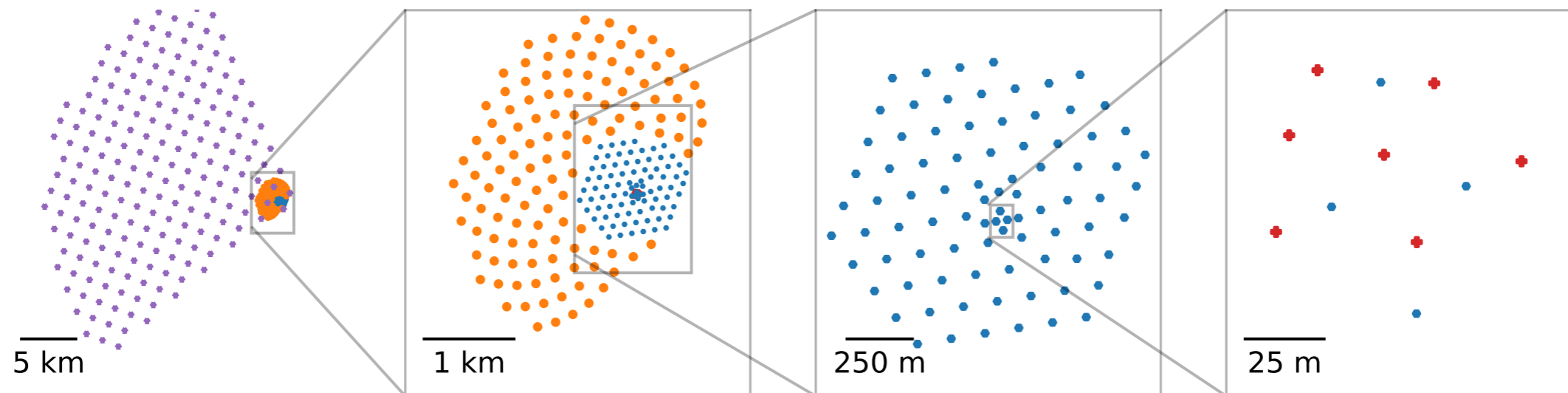


γ Gen2-Radio

● Gen2-Optical

● IceCube

⊕ IceCube Upgrade



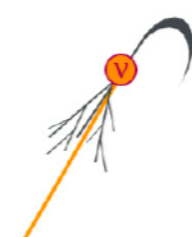
A History of Neutrino Astronomy in Antarctica



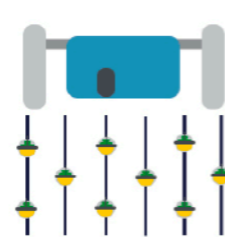
1988
Telescope in the Ice Envisioned



2000
AMANDA Completed



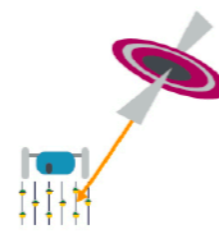
2001
Atmospheric Neutrinos Detected



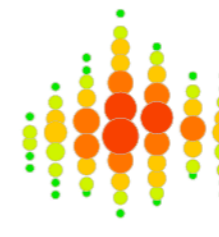
2011
IceCube Completed



2013
Astrophysical Neutrinos Discovered



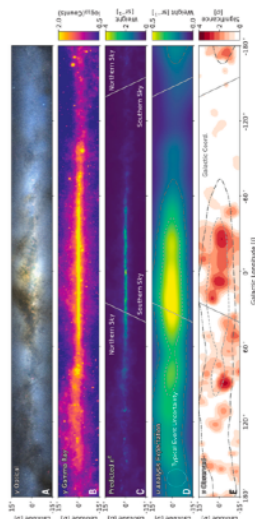
2018
First Source TXS 0506+056 Identified



2021
Glashow Resonance Neutrino Identified



2022
Second Source NGC 1068 Identified



2023
Galactic Plane

What's the next discovery ???

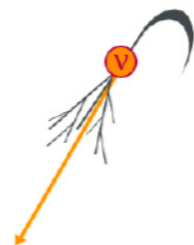
A History of Neutrino Astronomy in Antarctica



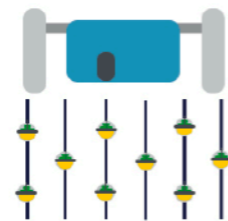
1988
Telescope in the Ice Envisioned



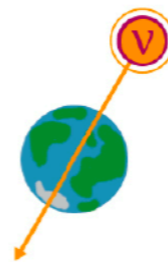
2000
AMANDA Completed



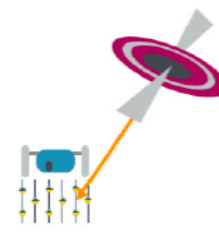
2001
Atmospheric Neutrinos Detected



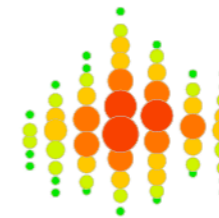
2011
IceCube Completed



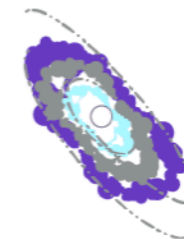
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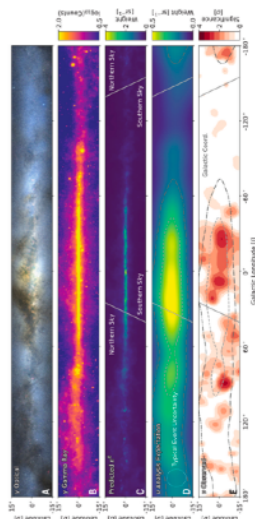
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2023
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What's the next discovery ???

Dark Matter ?

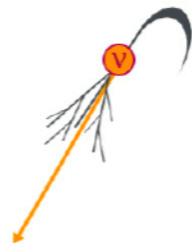
A History of Neutrino Astronomy in Antarctica



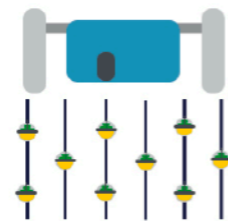
1988
Telescope in the Ice Envisioned



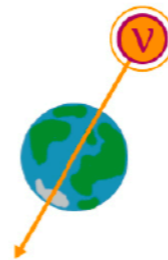
2000
AMANDA Completed



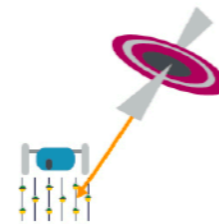
2001
Atmospheric Neutrinos Detected



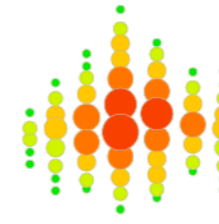
2011
IceCube Completed



2013
Astrophysical Neutrinos Discovered



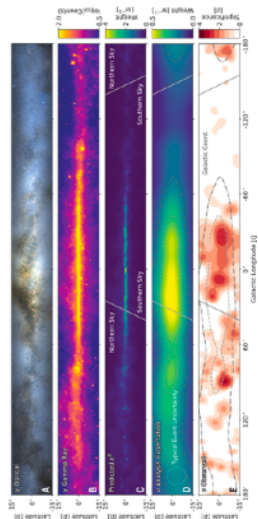
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What's the next discovery ???

Dark Matter ?

GW + ν

- High-energy astrophysical neutrinos are a new window to the Universe (first breakthrough discoveries, but we are just at the very beginning of a new era)
- Neutrino Telescopes are multipurpose experiments with an extremely diverse and very high impact science program
- Neutrino astronomy is a central part of the multi messenger astroparticle physics field - identify sources of hadronic acceleration
- The IceCube Upgrade is under construction, deployment in 2025 and we can look forward to many exciting discoveries in the near future

