



Author's information

Monojit Ghosh on behalf of **ESSnuSB**
 Ruđer Bošković Institute, Zagreb, Croatia
 mghosh@irb.hr

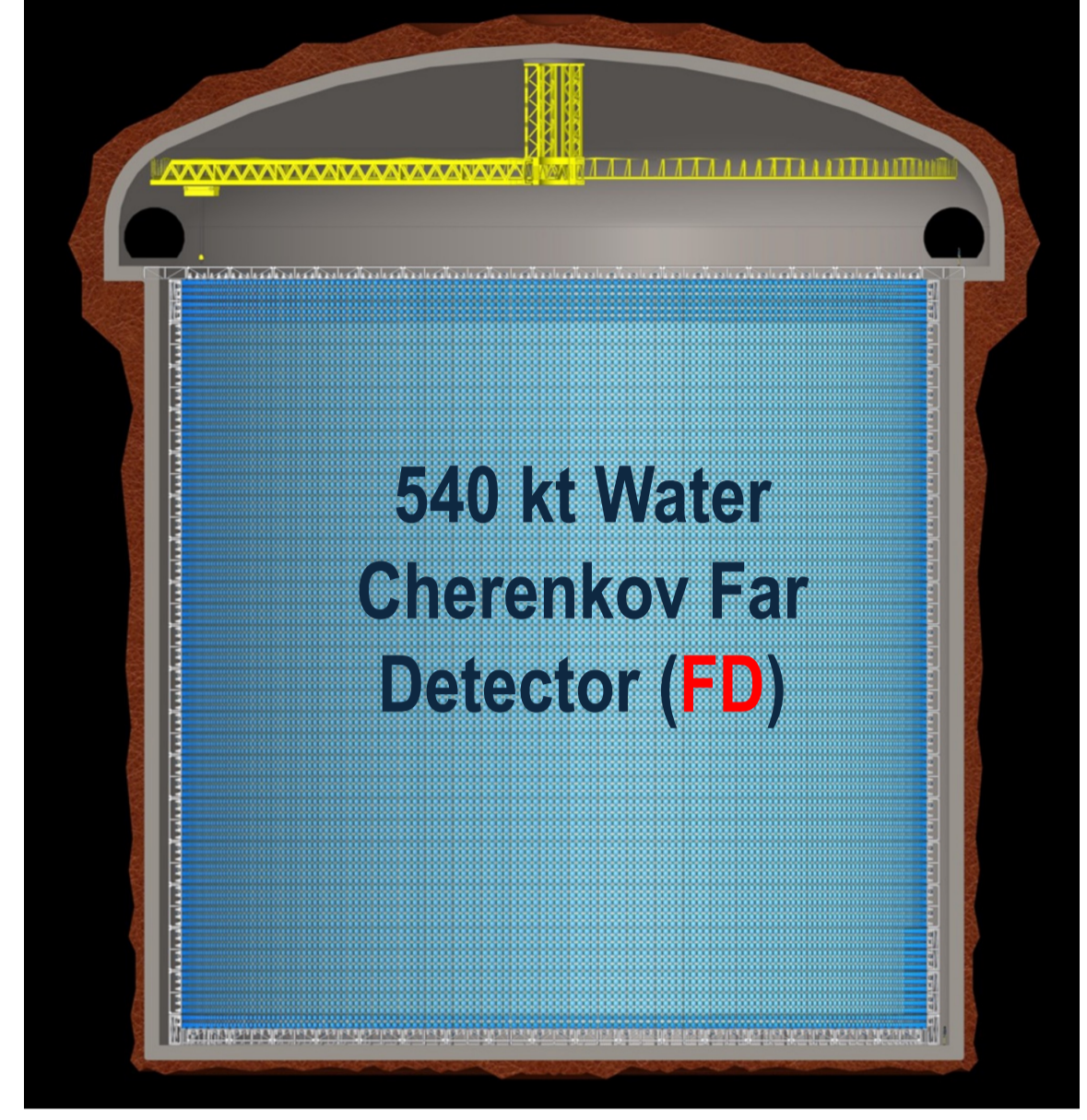
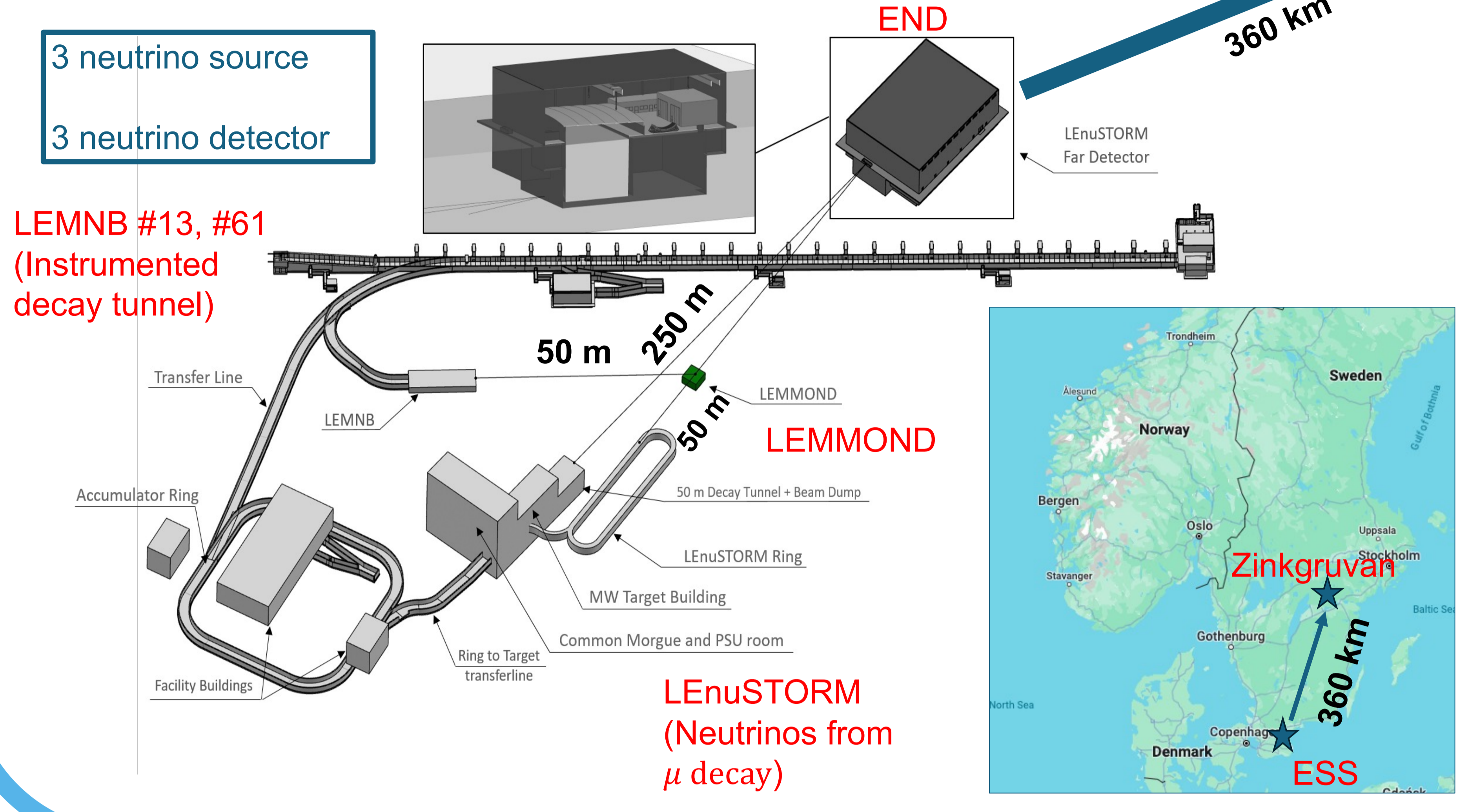
More on ESSnuSB

- #28 – ESSnuSB/ESSnuSB+ Detector Design
- #29 – ESSnuSB+ Target Station
- #40 – Decoherence at ESSnuSB
- #82 – New Physics at ESSnuSB/ESSnuSB+
- #370 – Overview of ESSnuSB+

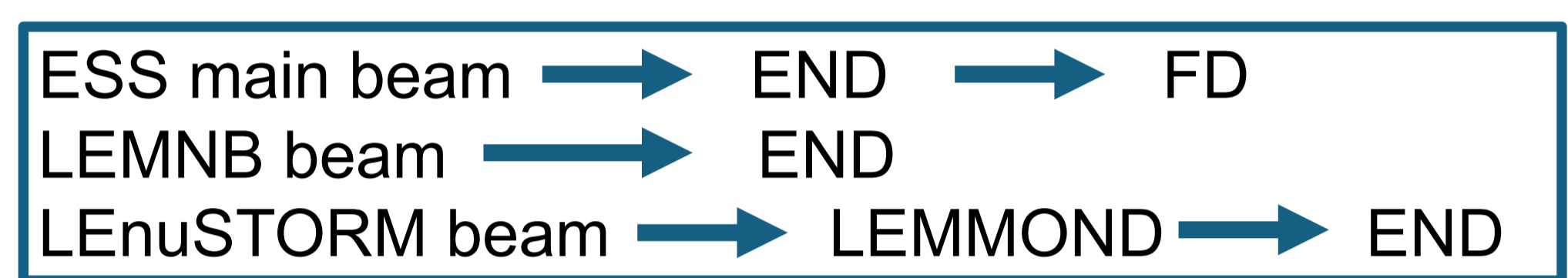


The ESSnuSB+ Setup

The ESSnuSB Design Study: Overview and Future Prospects *Universe* **9** (2023), 347

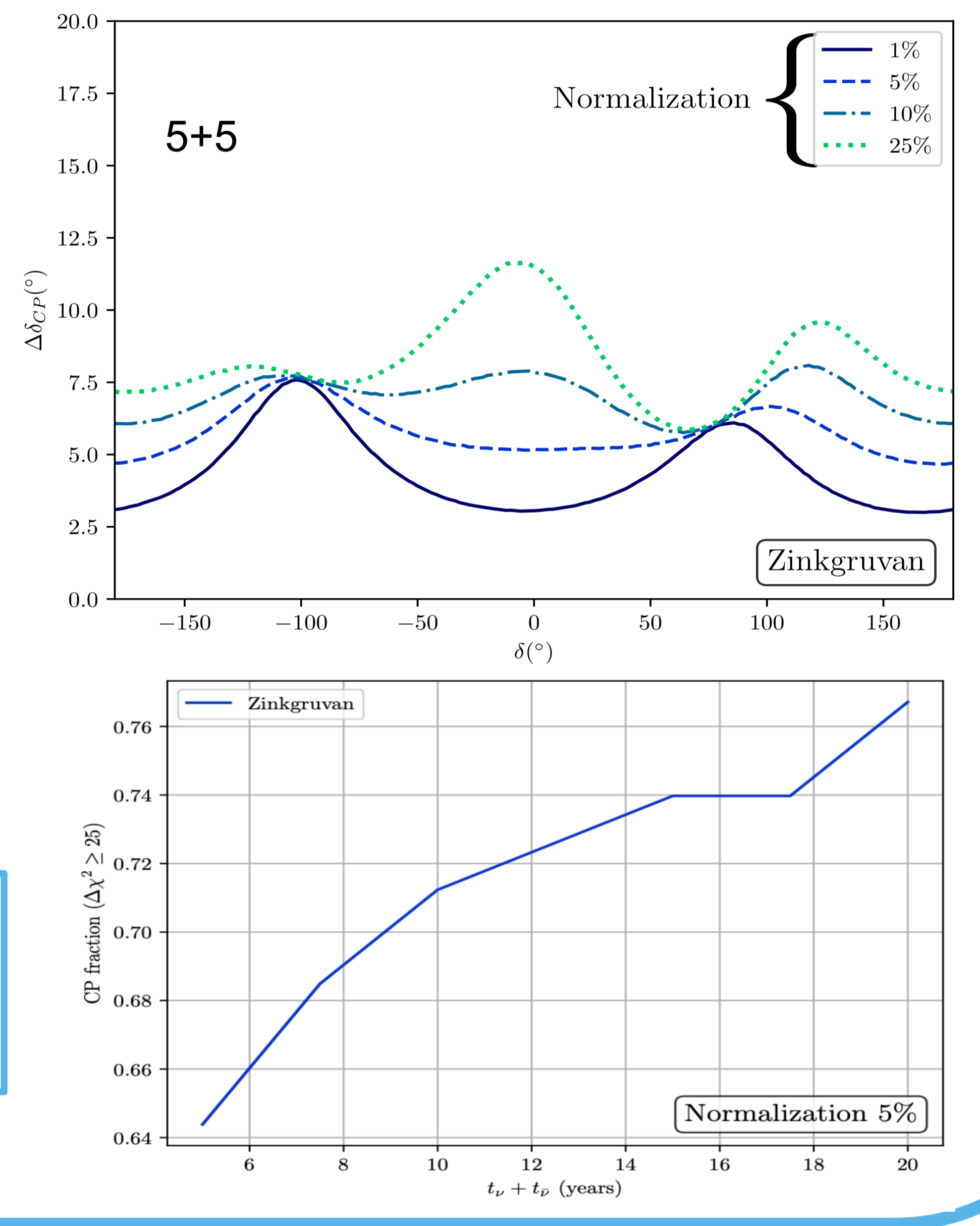
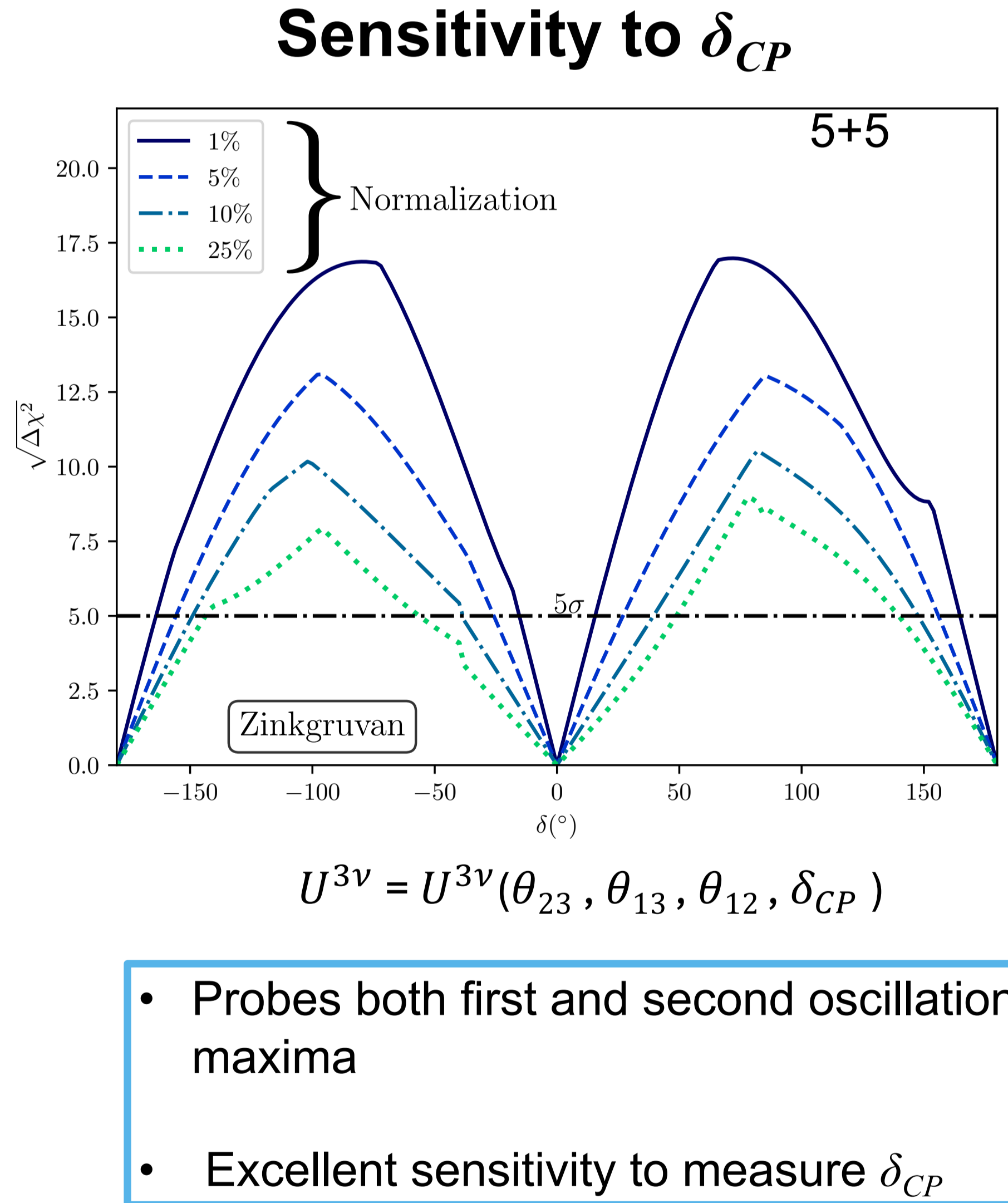
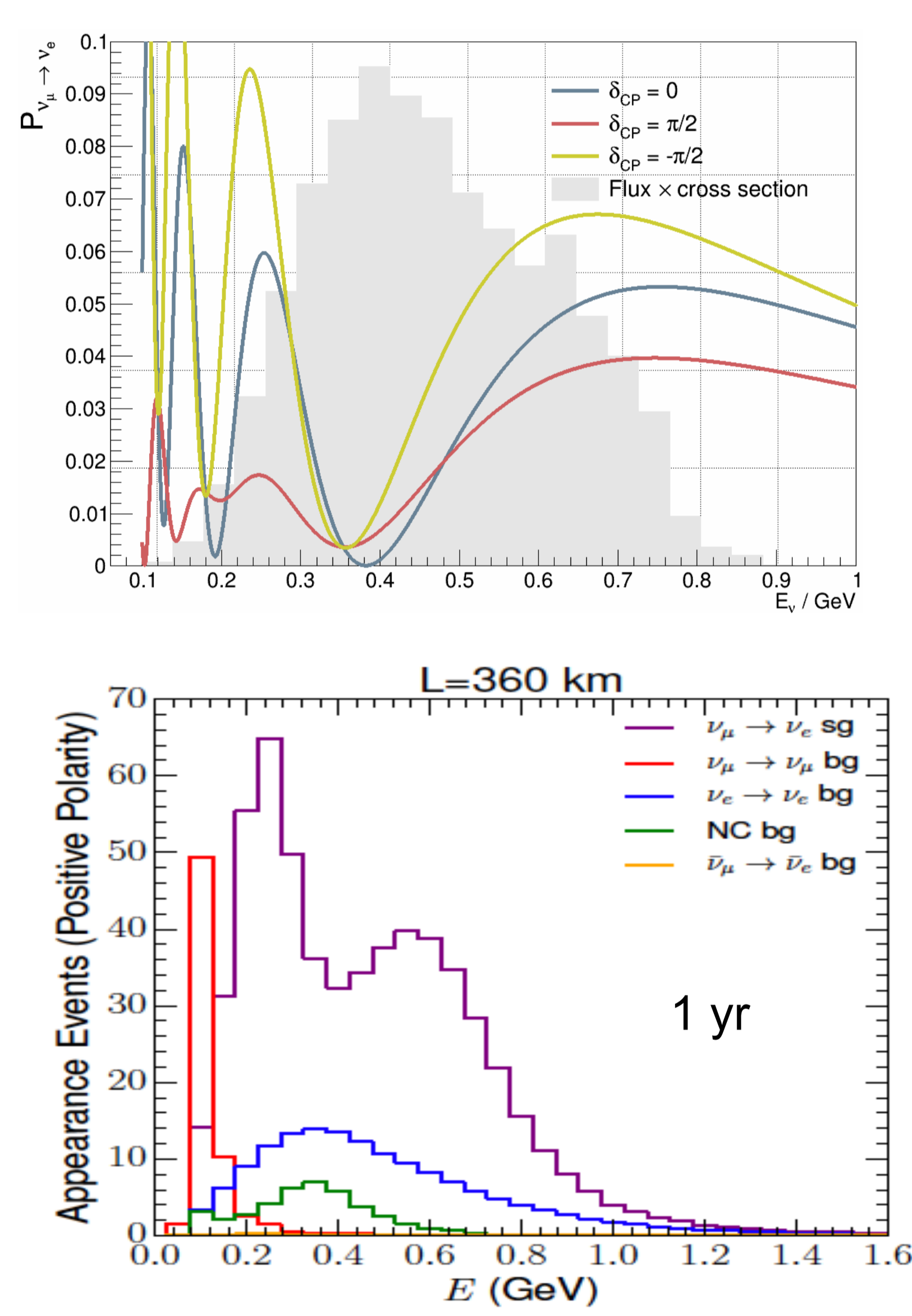


This Poster:
 Standard 3-flavour scenario, atmospheric neutrino and supernova neutrino at FD



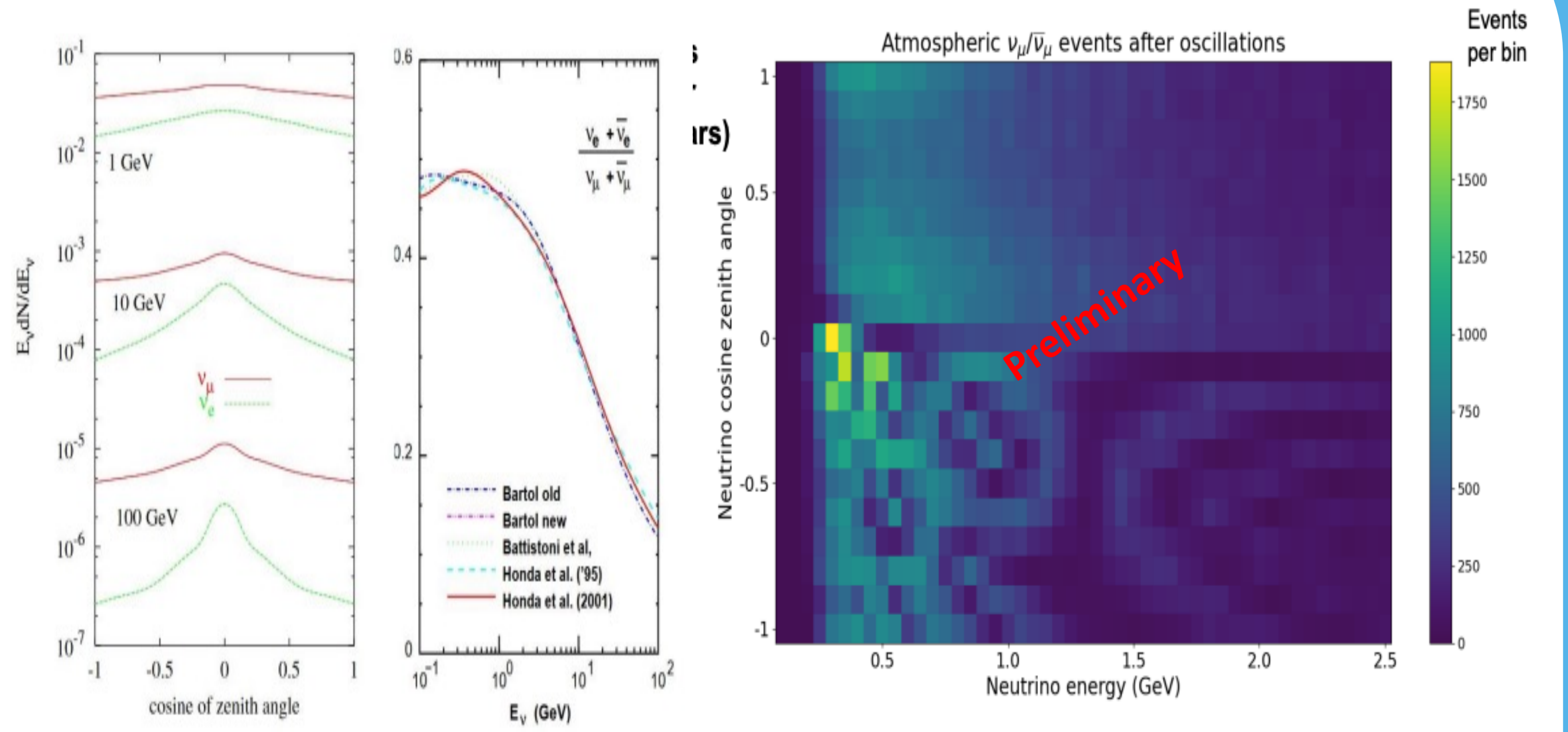
Physics Opportunities:

- Standard 3- ν and new physics scenario at FD
- Solar, atmospheric and supernova neutrinos at FD
- Sterile neutrino at END and LEMMOND
- Cross-section measurement
- Test various theories/models



CDR, Eur. Phys. J. ST **231** (2022), 3779-3955

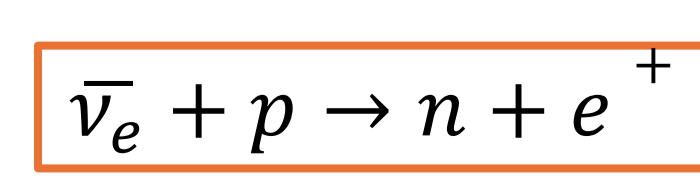
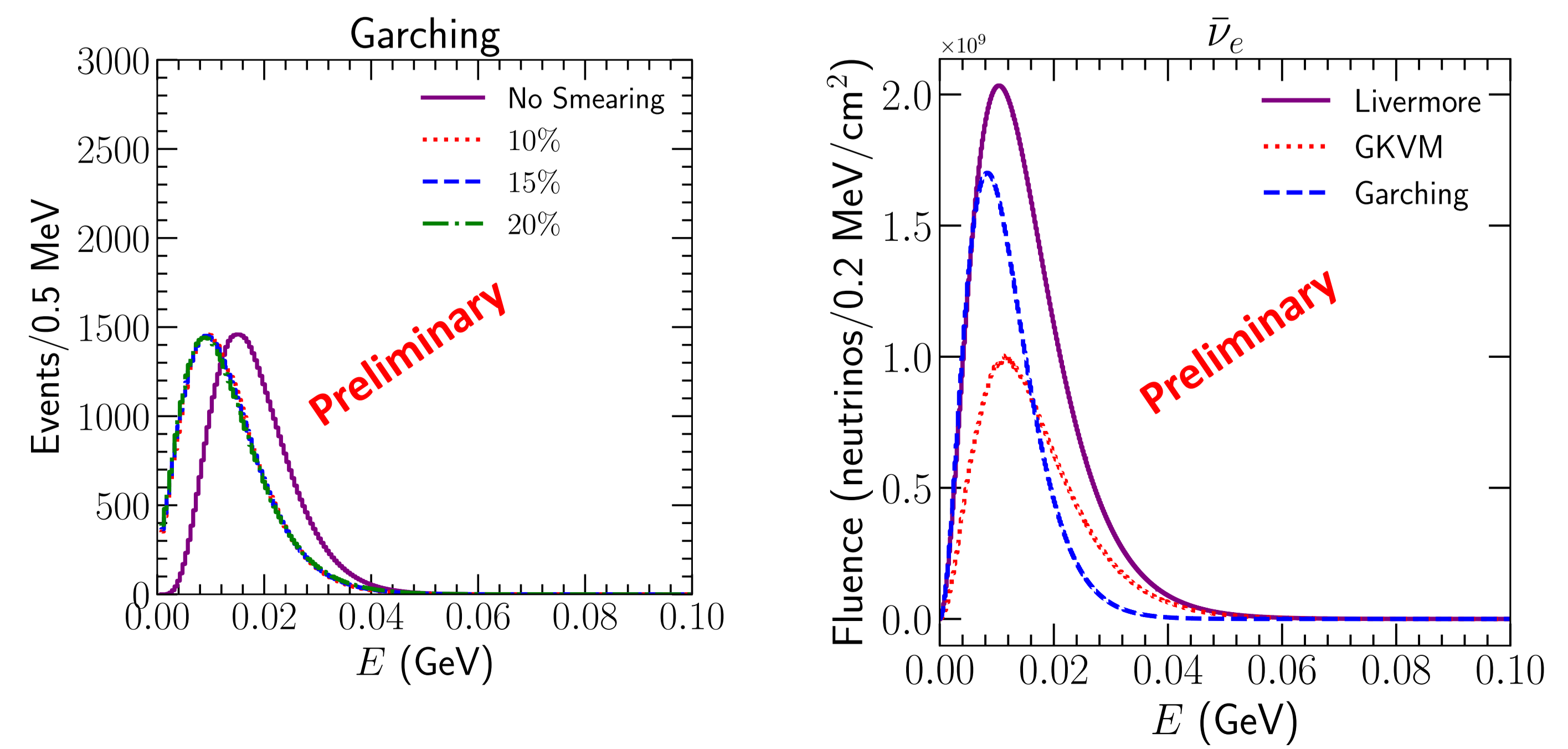
Sensitivity to atmospheric neutrinos



Ann.Rev.Nucl.Part.Sci. 52 (2002) 153-199

540 kt - 10 yr
 No Detector Response

Sensitivity to supernova neutrinos



Livermore	GKVM	Garching
148,686	88,528	51,068