

Cecilia Lunardini is a professor at Arizona State University. She received her PhD in 2001 from SISSA-ISAS (Trieste, Italy), and was a postdoctoral fellow at the Institute of Advanced Studies (Princeton) and a research fellow at the Institute for Nuclear Theory (Seattle). Her research is on the phenomenology of neutrinos from astrophysical sources, ranging from the cosmological neutrino background (at the sub-eV energy scale) to supernova neutrinos (10 MeV scale), all the way to extragalactic neutrinos of PeV energy and neutrinos from super-heavy cosmological relics (EeV and beyond). The papers by Lunardini and her collaborators (including nuclear physicists, astronomers, particle theorists, and gravitational waves experts) have an emphasis on the detectability and physics potential of these neutrinos, and have been cited more than 3000 times. She is best known for her work on the possibility to observe neutrinos from core collapse supernovae in the next decade at upcoming medium- and large-scale experiments. Lunardini has served on review panels for the National Science Foundation and for the Department of Energy, and has been a member of the National Advisory Committee of the Institute for Nuclear Theory (U. of Washington, Seattle). She was recently elected fellow of the APS (2020).