# Dr. Maria Elena Monzani, Lead Scientist

Kavli Institute for Particle Astrophysics and Cosmology and Fundamental Physics Directorate SLAC National Accelerator Laboratory 2575 Sand Hill Road, Menlo Park, CA 94025

#### **Education**

Università degli Studi di Milano	Milano, Italy	Particle Physics	PhD., 01/2005
Université Paris VII – Denis Diderot	Paris, France	Particle Physics	PhD., 01/2005
Università degli Studi di Milano	Milano, Italy	Astroparticle Physics	M.S., 03/2001

# **Appointments**

04/2020 - Present	Lead Scientist	SLAC National Accelerator Laboratory
11/2021 - Present	Adjunct Scholar	Vatican Observatory, Rome, Italy
09/2016 - 03/2020	Staff Scientist	SLAC National Accelerator Laboratory
11/2007 - 08/2016	Engineering Physicist	SLAC National Accelerator Laboratory
01/2006 - 10/2007	Postdoctoral Research Scientist	Columbia University in the City of NY
11/2004 - 01/2006	Research Fellow	Laboratori Nazionali del Gran Sasso, Italy

# **Leadership Roles**

2019 - Present	Department Head, LZ Operations	SLAC, Fundamental Physics Directorate
2018 - Present	Deputy Ops Manager, Computing	LZ Dark Matter Experiment, Operations
2016 - 2020	L2 Manager, Offline Computing	LZ Dark Matter Experiment, DOE Project
2012 - Present	Science Operations Lead	Instrument Science Ops Center, Fermi-LAT

#### **Selected publications**

- 1. D.S. Akerib et al. (LUX-ZEPLIN Collaboration), *Projected WIMP sensitivity of the LUX-ZEPLIN (LZ) dark matter experiment*, Phys. Rev. D 101, 052002 (2020)
- **2.** B.P. Abbot et al. (LIGO and other collaborations), *Multi-messenger Observations of a Binary Neutron Star Merger*, Astrophys. J. Lett. 848 L12 (2017)
- **3.** M. Ackermann et al. (Fermi-LAT Collaboration), *The Fermi galactic center GeV excess and implications for dark matter*, Astrophys. J. 840 43 (2017)
- **4.** M. Ackermann et al. (Fermi-LAT Collaboration), *Detection of the characteristic pion-decay signature in supernova remnants*, Phys. Rev. Lett. 115 (23) (2016), Science 339 807 (2013)
- **5.** M. Ackermann et al. (Fermi-LAT Collaboration), A statistical approach to recognizing source classes for unassociated sources in the first Fermi-LAT catalog, Astrophys. J. 753 83 (2012)

### **Awards and Synergistic Activities**

- DPF Ethics Advisory Committee Chair, APS Division of Particles & Fields (2020 2021)
- Chair of the SLAC Users Organization (2010 2011, 2019 present)
- NERSC Exascale Science Applications Program (NESAP) award (2019 present)
- NASA's Group Achievement Award to the Fermi Science team (September 2010)
- Member of the American Astronomical Society and American Physical Society