



Lawrence Berkeley
National Laboratory



Natalie Roe
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Natalie Roe is an experimental particle physicist and observational cosmologist. She earned her undergraduate degree in Physics from Harvard, and her Ph.D. at Stanford. She joined the Lawrence Berkeley National Laboratory in 1989, where she is currently the Physics Division Director. Natalie is a founding member of the Berkeley Lab Women Scientists and Engineers Council and is co-leading a laboratory-wide initiative to improve diversity and inclusion at the Lab.

Highlights of her research career include analysis of W and Z boson decays at the Fermilab Tevatron, the study of CP violation in B mesons at the SLAC asymmetric B Factory, and most recently, large astronomical surveys designed to study the mystery of dark energy including the Baryon Oscillation Spectroscopic Survey (BOSS), the Dark Energy Survey (DES) and the Dark Energy Spectroscopic Instrument (DESI).

Natalie has a strong interest in instrumentation and has worked on the D0 electromagnetic calorimeter, led the design and construction of the Silicon Vertex Tracker for the BaBar experiment, and was the Instrument Scientist for the BOSS experiment. As group leader for the LBNL MicroSystems Laboratory for almost 10 years, she was responsible for the fabrication of the science CCDs for both DES and BOSS.

Natalie has served on many community panels including HEPAP, the NSF Physics Division Committee of Visitors, the FNAL PAC and the FRA Committee of Visitors, and the Neutrino Science Advisory Group, and she is a past Chair of the APS Division of Particles and Fields. She has also been a member of the International Committee on Future Accelerators and the DESY Scientific Council, and currently serves on the CERN Scientific Policy Committee and the Scientific Council of the Institut de Recherche sur les Lois Fondamentales de l'Univers (IRFU) in Saclay, France.