

Michael Zingale, Associate Professor Stony Brook University



Bio: **Michael Zingale** is an Associate Professor of Physics and Astronomy at Stony Brook University. Michael earned a BS in Physics and Astronomy (1996) from the University of Rochester and a PhD in Astronomy and Astrophysics (2000) from the University of Chicago. He was part of the Flash Code development team that won a Gordon Bell Prize in 2000, and received a Presidential Early Career Award for Scientists and Engineers (PECASE) through DOE NNSA in 2005, and an Outstanding Junior Investigator award for the DOE Office of Nuclear Physics in 2006. Michael's research involves the development of new algorithms for efficiently modeling convection in stellar interiors. Together with computational scientists at the Center for Computational Sciences and Engineering, he co-developed and publicly released the Maestro low Mach number hydrodynamics code for stellar convective flows. He applies the Maestro to studies of early phases of Type Ia supernovae, novae, and X-ray bursts.

He will be the Chair of the OLCF User's Group Executive board this coming year.