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Bio - Elia Merzari is an associate professor at the Ken and Mary Alice Lindquist Department of Nuclear Engineering at Pennsylvania State University. He received his PhD from Tokyo Institute of Technology. In 2009 he joined Argonne National Laboratory, first as a postdoctoral fellow and then as a regular staff in 2010 where he stayed until 2019. His expertise covers modeling and simulation of advanced reactors including safety analysis for a range of reactor types. Since 2019 he is a member of the faculty at Penn State. He has received several awards related to these efforts on the area of high performance computing (HPC) including the American Nuclear Society Landis Young Member Engineering Achievement Award and the American Society of Mechanical Engineers George Westinghouse Silver Medal. He is a fellow of ASME.