

Prof. Ilian Iliev is computational astrophysicist whose research is focused on the formation of cosmological structures throughout cosmic time, from the First Stars to the present day. Of particular interest are studies of the Epoch of Reionization, the formation of the first stars and galaxies and their radiative feedback on the intergalactic medium and observable signatures. This work is done through massively-parallel simulations using a variety of numerical techniques, including N-body, radiative transfer and radiative hydrodynamics.

Prof. Iliev is the Project Leader of five Tier-0 and four Tier-1 PRACE projects, and a co-investigator on three Innovative and Novel Computational Impact on Theory and Experiment (INCITE) awards by the USA Department of Energy. He is core member of the LOFAR Epoch of Reionization Key Science Project, Co-Coordinator of the Full Numerical Simulations Focus Group within the Square Kilometre Array Epoch of Reionization project. He has published 114 refereed papers to date.