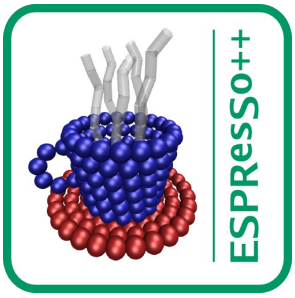
ESPResSo++

An extensible, flexible, fast and parallel simulation software for soft matter research



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ESPResSo++, the descendant of ESPResSo, is a free, open-source simulation software package for generic coarse-grained models as they are used in soft-matter research. It is developed in a joint project of the Max-Planck-Institute for Polymer Research in Mainz and the Fraunhofer-Institute SCAI at Sankt Augustin. ESPResSo++ is intended as a research platform for developing new methods and models in the field as well as a production system for actual simulation runs. It runs on desktop workstations, convenience clusters and high-performance supercomputers.
The time-critical core functionality is written in MPI-parallelized C++, while the simulations are controlled via a serial Python script.