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A web portal for hydrodynamical, cosmological simulations

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Since 2017, the cosmo sim web portal allows accessing and sharing the output of large, cosmological, hydrodynamical simulations with a broad scientific community and contentiously grows in services and data which are made available. It is based on a multi-layer structure: a web portal, a job control layer, a computing cluster and a HPC storage system. The outer layer enables users to choose an object from the simulations. Objects can be selected by visually inspecting 2D maps of the simulation data, by performing highly compounded and elaborated queries or graphically by plotting arbitrary combinations of properties. It also allows users to receive related scientific data products by directly processing the raw simulation data on a remote computing cluster.

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