



SKA Regional Center Development in Switzerland

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The Square Kilometre Array (SKA) project is an international effort to build the world's largest radio telescope. With an expected operational phase of at least 50 years, it will be one of the most important physics machines in the 21st century. It is estimated that the SKA Observatory will generate up to 600 PB of calibrated science data products each year, an unprecedented data rate in observational astronomy. As previously experienced by the Large Hadron Collider project at CERN, the SKAO and the international SKA science community will need to work collaboratively to create a shared and distributed data, computing, and networking capability. This global and collaborative network of SKA regional centers (SRCs) will draw on international cooperation and support the broad spectrum of SKA science.

We present the current status of SKA Regional Center development in Switzerland, including participation in global SRCNet development, deployment of services at the Swiss National Supercomputing Center, and value-added activities in data science, simulations, and digital twins.