



Contribution ID: 206

Type: **Plenary**

Computing for Large Scale Facilities

Large Scale Science projects normally require massive facilities that are funded through multi-national agreements. The computational requirements for these projects are complex, as the computing technologies have to meet multiple user requirements, and in a scale not yet realised by the current technology trends. The Square Kilometre Array (SKA), CERN etc.. are some examples of the projects, where computing technologies is pushed to the limits. The response of the computer manufacturers and scientific community to such challenges will be covered in this talk. We will also look at the developments in South Africa High Performance Computing and systems in place to ensure efficient support of the SKA computing requirements.

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Track Classification: Computing for Large Scale Facilities (LHC, FAIR, NICA, SKA, PIC, XFEL, ELI, etc.)