

Square Kilometre Array Computing Challenges

Wednesday, 10 April 2013 09:45 (40 minutes)

Summary

The Square Kilometre Array (SKA) is an international collaboration to build one of the world's great science instruments, which will tell us about the Dark Ages, the evolution of galaxies, the large scale structure of the universe, and whether Einstein was right about gravity. SKA will indisputably produce Big Data and will require Big Computing, namely two monolithic supercomputers located close to the telescopes in South Africa and Australia. The pipeline processing software has unprecedented goals in both scientific performance such as dynamic range, and scaling to large numbers of processing nodes. No existing imaging software meets these requirements and the effort to develop customised software will require about 200 developers spread across the globe.

Description

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Impact

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Presenter: TIM, Cornwell (Head of Computing, Square Kilometer Array)

Session Classification: Plenary Keynotes