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The SKA Project: technical requirements and challenges - 25'

Monday, 3 December 2018 11:45 (25 minutes)

The short presentation will present what we consider to be most important technical challenges for the SKA project. Before doing that, we need to put some context around and the current status of the project. The bridging phase and the adoption process to get to a successfully System CDR will be presented. The bridging phase will cover the gap between the Element CDRs and the System CDR, its main objective is to feed and support the system CDR of the observatory, currently plan for the end of next year. Because of the very high number of capabilities requested by the scientific community on the observatory we are facing many challenges starting from the availability of the observatory itself for the next 50 years of life. The availability requirement must be fulfilled with high quality hardware production, high stable hardware, easy to maintain and to verify. Each of this point is translated in one or more system requirements that are translated in technical and technical challenges for the specific element that comprises the system. The presentation will explore what “reliability” really means when we are dealing with high tech components and their high production number, offering a few examples for further discussion in the bridging phase.

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Session Classification: SKA-related technology and HPC activities