

## **The SKA Science Data Processor and SKA Regional Centre studies**

A community whose impacts will be strongly felt in the coming years is astrophysics. Within this domain, the Square Kilometre Array (SKA) project presents some of the biggest computing challenges. This paper presents the background to SKA computing work being taken forward by the Science Data Processor (SDP) Consortium and outlines studies informing the design (many of which parallel HEP challenges in areas such as exploiting parallelism). A summary of the challenge for SKA Regional Science Centres and current progress on the design and costing considerations of a European RSC will be given. Potential synergies with HEP distributed computing are discussed.

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