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## An Square Kilometer Array Regional Centre: Scaling Digital Research Infrastructure for Astronomy in Canada

*Thursday 19 October 2023 14:00 (25 minutes)*

The Square Kilometer Array (SKA) is a massive radio telescope project being built in South Africa and Australia. While observational astronomers at all wavelengths have been heavy users of high throughput computing for decades, the data rate of the SKA, 600Pb/year, far exceeds all current facilities. Earlier this year, the federal government announced that Canada will join the SKA Observatory and will provide funding for a domestic SKA Regional Centre (SRC) to support the science exploitation of the data from this facility. We will present an overview of the SKA and the international SRC Network followed by a description of the baseline plans for the Canadian SRC and how those plans fit within the context of the large astronomy projects in Canada.

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