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Magnetism and Galaxy Clusters: ongoing activities towards the SKA - 25'

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Galaxy clusters are the host of complicated non-thermal phenomena, that are best visible at radio wavelengths. The current generation of radio instruments, such as the uGMRT, LOFAR, and the JVLA, are showing in these years new and interesting features regarding both the cluster magnetic fields and the non-thermal emission associated with the intra-cluster medium. In this talk, I will review the main milestones that the community has achieved in the last years, and show the main advances that we expect to obtain with the SKA.

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Session Classification: Science with SKA Precursors and Pathfinders