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Radio observation of diffuse radio emission in Abell 773 galaxy cluster

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A fraction of galaxy clusters host diffuse, Mpc-scale, low surface brightness emissions named “radio halos”, that spatially correlate with the diffuse X-ray emission. Current models indicate that radio halos are connected to the galaxy cluster merger history: radio emission is due to particles that are re-accelerated to relativistic energies via turbulence induced via cluster mergers.

Here we present radio observations of the A773 galaxy cluster taken with the Westerbork telescope aimed to study the physical properties (morphology, size and spectral index, polarization) of its radio halo and characterize their radio emissions at different frequencies.

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