

28th Texas Symposium on Relativistic Astrophysics



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Type: **Talk**

Galactic magnetic fields

Tuesday, December 15, 2015 2:25 PM (20 minutes)

This talk will provide an overview of our current knowledge about galactic magnetic fields. The typical properties of magnetic fields in galactic discs and halos will be described as well as magnetic field characteristics at different length scales between 10 pc and 10 kpc. The talk will concentrate on reviewing what is known from observations, but will also point out the areas where theoretical models have been successful and where they still face challenges. I will briefly discuss the prospects for exciting new developments in our understanding of galactic magnetic fields and their evolution, due to the improvement in radio telescope capabilities that is currently underway.

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Session Classification: 10 - Cosmic magnetic fields