

# Synchrotron Constraints on the Cosmic Ray Electron Spectrum

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**SUMMARY** The interstellar electron (and positron) spectra are difficult to determine at low energies due to solar modulation. Synchrotron emission provides constraints which are independent of modulation, and which sample the Galaxy on the large scale. We use synchrotron surveys from 22 MHz to 94 GHz combined with direct measurements of electrons to obtain the ambient interstellar spectrum, and compare with models which relate this to the injection spectrum and cosmic-ray propagation.

