

Radio astronomy

Rohlfs, *Tools of radio astronomy* 4th rev. and enl. ed., Springer, 2004

Lilley, A.E. & Palmer, P., *Tables of Radio-Frequency Recombination Lines* [ApJS 16, 143, 1968](#)

Data calibration

General flux calibration

Baars et al., *The absolute spectrum of CAS A - an accurate flux density scale and a set of secondary calibrators*, [A&A 61, 99, 1977](#)

Kraus, *Calibration of the Effelsberg 100m telescope*, tech. memo, 2009

Spectroscopic flux and bandpass calibration

Winkel et al., *Unbiased flux calibration methods for spectral-line radio observations*, [A&A 540, A140, 2012](#)

Heiles, *A New Technique for Heterodyne Spectroscopy: Least-Squares Frequency Switching (LSFS)*, [PASP 119, 643, 2007](#)

Opacity correction/determination

Pardo et al., *Atmospheric Transmission at Microwaves (ATM): An Improved Model for mm/submm applications*, [IEEE Trans. on Antennas and Propagation 49, 1683, 2001](#)

Backends

FFT spectrometer

Klein et al., *High-resolution wide-band Fast Fourier Transform spectrometers*, [accepted by A&A, 2012](#)

Klein et al., *The APEX digital Fast Fourier Transform Spectrometer*, [A&A 454, 29, 2006](#)

Radio frequency interference (RFI)

Gary et al., *A Wideband Spectrometer with RFI Detection*, [PASP 112, 560, 2010](#)

Flöer et al., *RFI mitigation for the Effelsberg Bonn HI Survey (EBHIS)*, [Conference proceedings of "RFI](#)

[2010", POS, 2010](#)

Fridman, *Statistically Stable Estimates of Variance in Radio-Astronomy Observations as Tools for Radio-Frequency Interference Mitigation*, [AJ 135, 1810, 2008](#)

See also:

[Conference proceedings: RFI mitigation workshop \(RFI 2010\)](#)

[Frequency allocation \(German\)](#)

Polarization measurements

Zeeman

Robishaw, *Magnetic fields near and far: Galactic and extragalactic single-dish radio observations of the Zeeman effect*, [Ph.D. thesis, Berkeley, 2008](#)

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