

Radio astronomy

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Data calibration

General flux calibration

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Ott et al., *An updated list of radio flux density calibrators*, [A&A 284, 331, 1994](#)

Perley & Butler, *An accurate flux density scale from 1 to 50 GHz*, [ApJS 204, 19, 2013](#) Kraus, Calibration of the Effelsberg 100m telescope, *tech. memo*, 2009 Lilley & Palmer, *Tables of Radio-Frequency Recombination Lines*, [ApJS 16, 143, 1968](#) === 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](#) Sources suitable for spectroscopy/line pointing can be found in the [ATNF SiO maser database](#). === 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](#) ITU-R, Attenuation by atmospheric gases, [P.676-9, 2012](#) Lay, The temporal power spectrum of atmospheric fluctuations due to water vapor, [A&A 122, 535, 1997](#) ===== Backends ===== FFT spectrometer === Klein et al., High-resolution wide-band Fast Fourier Transform spectrometers, [A&A 542, 3, 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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