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Spectrum analysis of data with variable intervals: An application to the NOZOMI/MGF data

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Fourier transform of intermittent, aperiodic samples of data, to which descrete Fourier transform is not applicable, is carried out by fitting a Fourier series to the data. This method is applied to the interplanetary magnetic field data obtained by NOZOMI spacecraft during the period from September 1, 1999 to September 30, 1999 to show the feasibility of spectrum analysis of data sampled with variable intervals.

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