A simple approach to transient correction in ISO LWS data

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It is well known that some of the LWS detectors suffer from transient or memory effects. These can change the shape of lines and alter the slope of the continuum depending on the direction in which the spectrum is scanned. The effects are extremely complex and sophisticated algorithms are normally required to correct for them. In this paper the different types of behaviour associated with transients are described and a simple approach to correcting for them, assuming a single delay constant, is explored.