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The Next Steps (A4)  
SETI 1: SETI Science and Technology (1)

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KALMAN FILTERS FOR RADIO ASTRONOMY

**Abstract**

Kalman filters are used, among other applications, to predict a signal from noisy measurements. In this paper, Kalman filters are applied to data collected by radio telescopes.

The performance and the outputs are compared to other techniques, like thresholding, Fourier transform analysis, spectrum sensing and so on, to test their suitability to astronomy applications.