

50th IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) –  
The Next Steps (A4)  
SETI 1: SETI Science and Technology (1)

Author: Dr. Nicolò Antonietti  
INAF - IRA, Italy, nicolo.antonietti@gmail.com

Dr. Stelio Montebugnoli  
National Institute for Astrophysics, Italy, s.montebugnoli@ira.inaf.it

Dr. Pierpaolo Pari  
INAF, Italy, pari.pierpaolo@gmail.com

Dr. Roberto Lulli  
INAF - IRA, Italy, roberto.lulli@unicam.it

Dr. Sergio Erculiani  
IRA-INAF, Italy, sergiastro81@gmail.com

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 measurements from radio telescopes.

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