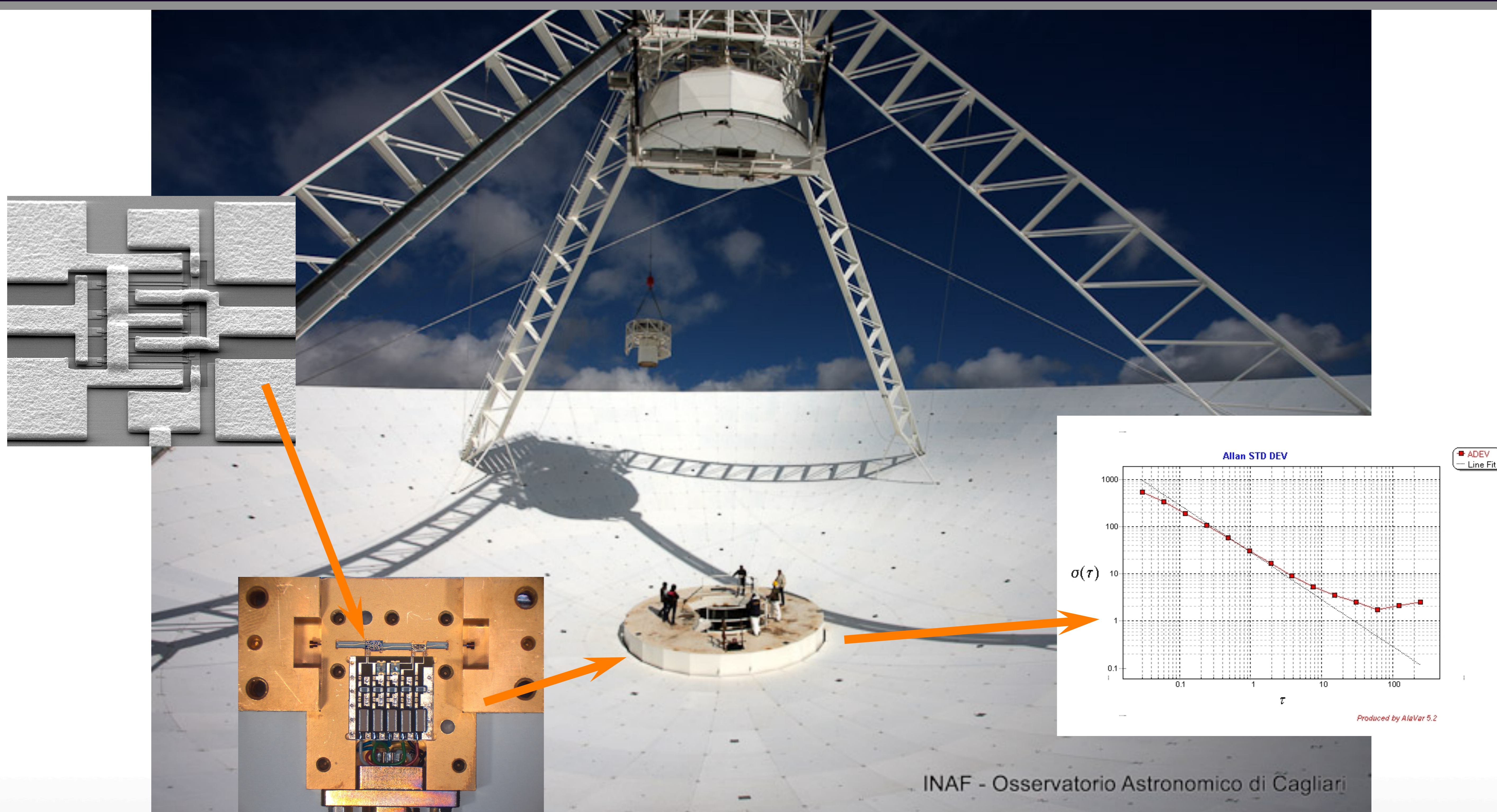


5TH ENGINEERING FORUM WORKSHOP

12 – 13 MAY 2011, CAGLIARI / ITALY

RECEIVER GAIN STABILITY



Overview:

Goal of this meeting is to bring together receiver engineers who are working in the field of cryogenic low-noise receiver design for radio astronomy. Besides low noise gain stability is a key issue for radiometer design since the low – noise HEMT devices usually employed in the systems show gain fluctuations with a $1/f$ power spectrum.

The workshop will set the stage for sharing the diverse and high-level expertise within the Radio Astronomy Institutes. It should help identify common technical challenges and pre-existing solutions, encourage collaboration and collaborative projects and reduce costs through shared information.

Topics:

- Basics of noise and gain instabilities in radiometers.
- Theory of $1/f$ or flicker noise.
- Gain stability measurements and statistics.
- Design of stable receivers.
- Recent developments of stable LNAs and radiometers.

You are welcome to present your interesting work in an oral or poster.

Registration Deadline: April 14th, 2011

SOC: R. Keller, T. Pisanu, A. Navarini, F. Schäfer, M. Seelmann-Eggebert

LOC: T. Pisanu, P. Bolli, M. Monni, G. Valente, F. Gaudiomonte, I. Rottmann