Noise Analysis Package: a tool for noise data analysis
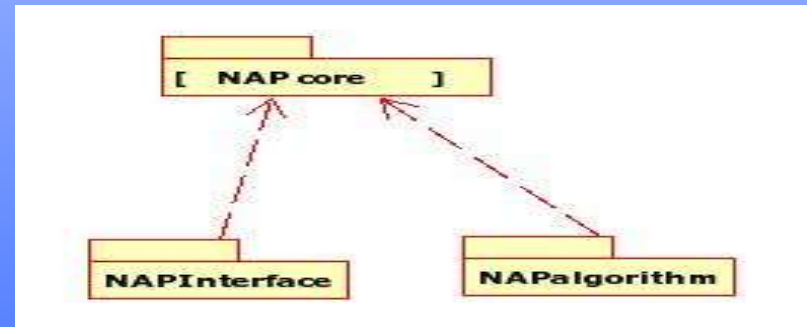
A team of people agreed to merge all their work on noise analysis in a common tool, in homogeneus software, putting together basic signal processing tools and R&D algorithms.

The goal is to use this tool for data analysis, noise hunting and test new algorithms on simulated noise (also non stationary or non linear).

Nap is a C++ library, using open source instruments, and free library like boost library, gsl.

We set up already the Nap Core and started coding algorithms and interfaces for the users.

Nap Design

First application on real data: MultiCoherence analysis, Parametric Spectral estimator and whitening. Adding algorithms is going on...

Elena Cuoco(EGO) for Virgo Collaboration