IVC Interferometric Visibility Computations

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An IDL software tool for interferometry simulations and model fitting

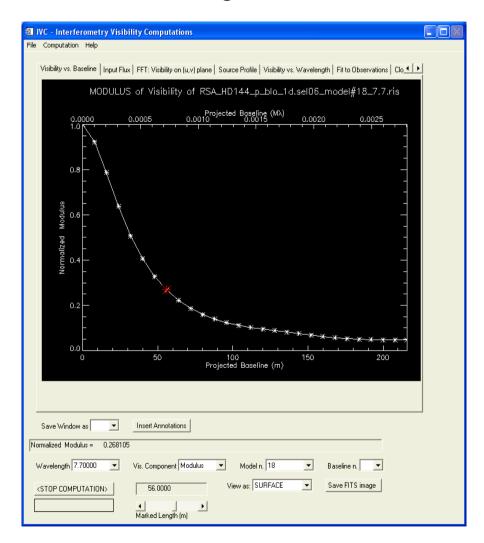
IVC is a software wich does interferometric computations for sparse uv-coverage interferometers from custom source models allowing simultaneous model fitting on interferometric and non-interferometric observations.

IVC can be used as a stand-alone GUI, or as a Function to be called from within the user's modelling code.

It is written in IDL but can be run without IDL by means of the free IDL Virtual Machine.

IVC main aspects:

- · oriented to models grids;
- inputs models as 1D profiles $I(r,\lambda)$ with any r and λ sampling, in order to give the exact geometry and SED, or as 2D FITS images $I(x,y,\lambda)$;
- designed to be callable e.g. from within a SED fitting code of the user to add interferometric constraints by means of a double χ^2 fit on spectral and visibility observations.



IVC is currently in its final stages of implementation: current beta version 0.9.1 (only working fine in GUI mode under Windows so far) can be downloaded for free at www.mporzio.astro.it/~licausi/IVC/.

Version 1.0 will have Function mode callable by IDL codes and callability by non-IDL codes is foreseen.