



JRA4

IMPLEMENTATION OF WP1.2 AND CALL FOR INTEREST

Mario Gai (gai@to.astro.it)
INAF - OATo

1. Introduction

During the kick-off meeting (Nice, 7-8 Jan. 2004), the goals and framework of WP1.2 have been outlined, reminding the relevance of cophasing and fringe tracking (CFT) issues to the current and future interferometric instrumentation. Below we recall the high-level objectives:

- 1) Optimisation of current cophasing instrumentation performance;
- 2) Optimisation of measurement operations;
- 3) Cophasing schemes for advanced instruments (multi-beam, LBT, ...).

Also, the following tentative list of study areas was identified:

- T1. Analysis of performance of current fringe tracking systems
- T2. Fringe sensors hardware improvements
- T3. High sensitivity operation
- T4. Fringe sensors detection schemes
- T5. OPD measurement filtering
- T6. High precision astrometric calibration
- T7. Baseline and wavelength bootstrap
- T8. Multi-beam fringe sensor concepts
- T9. Identification of technology development requirements
- T10. Analysis of applicability of advanced detector (e.g. NIR STJ)
- T11. Analysis of applicability of integrated optics (in bands J, K, ...)

The activity of WP1.2 bears strict relations to the work foreseen in WP1.2, WP2, and NA5. The implementation plan is then to be defined accordingly to the requirements of all interested parties and is subject to modification along the time depending upon the program evolution. Since planning revision is foreseen by EU rules each 12 months, revising the activity definition for the following 18 months, it is possible to provide an upgrade path for the WP1.2 definition accordingly to the same mechanism. The definition of CFT goals and list of specific study issues will be updated yearly, based on the proposals from EII parties, reviewed by the WPL and approved by the Extended Board. The details of new activity implementation shall follow the rules of the EII MoU and of the JRA.

Identification of new study issues or modification of the scope of current study issues may be investigated and discussed informally by the interested parties in view of formal definition.

The status of the CFT activity will be monitored by a progress report updated every six months, describing the work carried on in the period and in case the new proposed study issues.

2. Call for interest

Deadline (preliminary, first iteration): 15 February 2004

First iteration on membership and task allocation: 27 February 2004

The parties desiring involvement in WP1.2 are invited to submit an expression of interest via the co-phasing mailing list (<http://eii-jra4.ujf-grenoble.fr/www/info/co-phasing>) or by e-mail to the WPL (gai@to.astro.it). Late contributions shall be

discussed and included in WP1.2 accordingly to project schedule, activity and management constraints.

Applications shall be evaluated for selection and coordination by the JRA4 board (Coordinator + WPLs).

This call is open to all parties of EII; the expression of interest should include

- (1) Name of responsible or contact point
- (2) List of personnel involved and amount of manpower proposed (e.g. months in 2004)
- (3) Task identification (if included in above list)
- (4) Task description (if NOT included in above list)
- (5) Comments on schedule and management plan

Example for the INAF-OATo group:

- (1) Contact point: M. Gai (gai@to.astro.it) 4 months
- (2) Collaborators:

D. Bonino	4
L. Corcione	3
D. Gardiol	1
M. Lattanzi	1
D. Loreggia	2
G. Massone	3
- (3) T1 to T6
- (4) -
- (5) Priority along timeline: T1, T3, T5 higher; T2, T4, T6 intermediate.

3. Remarks

Participation from other institutes is in principle acceptable; in general, the simplest approach appears to be by joining the EII.

Should any problem arise with the above contacts, please notify the project coordinator, project manager or other EII parties to restore the communication.