

CfAO Proposal Review

Theme 2

Proposal Title: 2.20 Development, implementation and Validation of PSF Reconstruction Techniques

Principal Investigator: D. Le Mignant

Reviewer: 2

1) The project progresses quite well and it seems to me that the right persons are at the right places in order to guarantee the success of the project. The work described in the report is quite impressive and fully met the project milestones. I'd recommend that an effort will be made on publications. Only one has been done (submitted paper) and on a side-subject (outer scale anisoplanatism). I'd like to see one submitted paper on "reconstruction PSF algorithm" and at least one SPIE paper on the same subject.

2) The Y10 milestones have remained unchanged and the global project structure is in perfect adequation with the final goal that is the supply of an efficient PSF reconstruction algorithm for the Keck observations

3) No significant change

4) It seems that the project coordination works well. The team should pay more attention to the publication / communication issues.

5) The budget is extremely reasonable with respect to the importance of the project. The supply of an efficient PSF reconstruction algorithm working both on Natural and Laser Guide star is essential for the astronomical community and will lead to significant improvement in the data analysis of AO data obtained with the Keck telescope. The extension to wide FoV AO system is also very important especially for the next generation of AO systems (for existing and future ground based telescope).

I strongly recommend pursuing the funding of this project.