**School of Physics and Astronomy**

**Thesis Planning and Progress Report**

*To be completed by all students who have been studying for at least three years*

This meeting should cover the normal progress review and also give detailed consideration to the thesis plan.

Before the meeting, the student must submit an electronic copy of his/her outline thesis plan to their supervisor and the person who acted as the assessor for the mid-course assessment.

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| **Name of Student:** Thomas North  **Supervisor:** Bill Chaplin    **Mid-Course Assessor:** Evgueni Goudzovski |
| **Thesis Title/ subject :** Exoplanets and Asteroseismology: Know the star, know the planet  **PhD start date:** 22nd September 2014 |
| **Any periods of time expected away from Birmingham (eg at CERN):**  No significant time, 1 week spent in Porto, Portugal |
| **Outline of work carried out in the last six months:**  *(Attach details on a separate sheet of paper if required)*  3 main areas in last 6 months;   1. Retired A Stars: Stars that potentially have overestimated masses from spectroscopy, Kepler and K2 observations have allowed asteroseismology to be performed on these stars for an ensemble of 7 stars, the results are now being prepared into a paper to be submitted by Easter 2. Using SONG telescope, spectroscopy of bright exoplanet hosts has been undertaken in a homogenous fashion along with a suitable control sample to reassess the giant planet vs metallicity correlation that has potentially been seen in giant stars. Third telescope proposal for this project current being assessed, awaiting result. Travelled to Porto in October 2016 to work with CoIs on specroscopic analysis from first telescope proposal final data 3. Evolved planetary candidate host KOI-6194: a Kepler Object of Interest, possibly orbited by a ~Neptune sized planet, currently under radial velocity observation in Hawaii to confirm planet signal. Data to be ready ~September, paper in initial stages of preparation done, all asteroseismic analysis completed. |

*To be completed jointly by Supervisor and Assessor during meeting*

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| **A brief report should be provided here on the discussion of the thesis plan:** |

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| **Have main objectives for the previous six months been achieved?**  *(If not, please comment)* |
| **Do you regard the student’s progress as satisfactory at the present stage?**  *(If not, please comment)* |
| **Have you discussed the graduate placement scheme?**  **Have you discussed future career plans?** |
| **Is the Thesis Plan agreed?**  *(If not, please indicate steps to be taken to rectify problems)* |
| **In your opinion, is the student likely to be impeded by factors beyond his/her control?** |
| **What actions do you recommend to overcome any difficulties or shortcomings?** |
| **Plagiarism:**  **Is the student aware of the 2013 code of practice on plagiarism?** |
| **Has the student published any papers or presented work at a conference in the last 6 months? YES/NO:**  *(If yes please give brief reference)* |
| **Any Further Comments:** |
| **Signed (at meeting)**  **Students Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Supervisors Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Mid-Course Assessor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Signed (Head of School)**  **Martin Freer : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |