

Supervisor Name: Professor Ian McHardy

Student Name: Alexander Weston

Title: Modelling the UV and Optical emission from accretion discs

15% Research (Supervisor only)

Mark:

95

(x✓)

(mark out of 100 in box please)

Application of core science material	Alex produced outstanding work during the course of the year and continually came up with improvements and better ideas for the project. He rapidly grasped the aims of the project and the technical challenges at a very deep level. In fact his first idea was that we didn't need to make a complex numerical model, we could solve the problem analytically, which did work for the face-on disc. I could talk to Alex as if he were a very good postgrad. Splendid work, Alex!
Literature searching	
Comprehension of new material	
Initiative and independence	
Organisation and time management	

10% Content (Report)

Mark:

100

(x✓)

Abstract	This is an astoundingly good piece of work. There is really nothing to criticise. It is extremely comprehensive, with loads of material straight out of Alex's brain, eg all of the analytical maths. It covers a huge amount of material, all very clearly explained and, where needed, very well referenced. The progress of the work throughout the year, in clear logical fashion, showing where a problem has arisen and then how it was overcome, is excellent. There are all manner of small, but important, details that Alex has included. It is amazing that he managed to achieve so much during an MPhys project.
Background information	
Scope and balance of material	
Clarity of explanation	
Appropriate level of science	
Synthesis & critical discussion	
Appropriate use of references	

10% Presentation (Report)

Mark:

100

(x✓)

Structuring of report	This is an extremely well presented report. The structure is very logical, headings are very clear, figures are very well presented, with easy to read axes labels and captions. The English is easy to follow which, given the complexity of the science, is very good going.
Layout and general presentation	
Use of figures and diagrams	
Correctness and style of English	

Supervisor Signature:

Ian McHardy

Date: 10 May 2021