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Journal Name:	**Physical Science International Journal**
Manuscript Number:	**Ms_PSIJ_29808**
Title of the Manuscript:	**H_α AND H_β PROFILE VARIATIONS IN THE SPECTRA OF EARLY SUPERGIANTS HD198478 AND HD187982**
Type of the Article	**Original Research Article**

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty'**, provided the manuscript is scientifically robust and technically sound.
To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Compulsory REVISION comments		
Minor REVISION comments	The paper shows the analysis of spectroscopic observations made by the 2-m telescope at the Shamakhy Astrophysical Observatory in the years 2010-2015 for supergiant star HD 198478 and in the years 2010 – 2014 for supergiant star HD 187982. The method used is the same like that used by Maharramov, Y.M; Baloglanov, A. Sh. 2015, Odessa Astronomical Publications, vol. 28, p. 39 (2015), the standard technique using the 72 DECH20 and DECH20t software in addition to the visual inspection of the appearance and disappearance of spectral lines. After an overview of the literature for two supergiant stars I can see this work is similar to that made with above previous published work especially for the star HD187982 with difference in years of observations. The paper delivers results concerning the variations of line profiles of H Alpha and H Beta and determination of some parameters (Radial Velocity & Equivalent Width). These results can be considered to shed light on the spectral variations of these systems with their determined parameters and can be of interest for community of	

	researchers interested in this and similar systems and should be published. After carefully reading the manuscript I can recommend it for publication in the Physical Science International Journal after minor revisions. As the outcome of the paper the Authors have formulated a number of conclusions compiled in 3 points of one section. Conclusions 1-2 concerning the spectral behavior of the H Alpha line for the star HD198478 with interpretation, while conclusion 3 regarding the spectral behavior of H Alpha line for star HD187982 with explanation for time variations. Below are listed my specific comments with the list of changes I suggest to introduce in the paper to make it more clear and more easy in reception by a reader. Most of them are simple corrections or omissions. Specific comments ********** ******** Abstract Page 1 line l0: from observations should be from spectroscopic observations	

	I. Introduction Page 1 lines (50 - 52) In the study of Hα, Hγ, 51 Mg II (4481 Å), and Fe II (4924 Å, 5018 Å, 5169 Å) lines observed in the atmospheres of this 52 supergiant is presented [4-5, 11, 12]. should be Some spectral lines Hα, Hγ, 51 Mg II (4481 Å), and Fe II (4924 Å, 5018 Å, 5169 Å) are observed in the atmosphere of HD187982, [4-5, 11, 12]. Page 2 line 59 We believe our results will be of interest for further studies of these remarkable stars must be omitted II. Observations and processing Page 2 line 106 the Hα line was observed should be the Hα line shows Page 2 line 109 Note that Should be	

	It is noted that Page 2 line 111 were observed should be show Page 3 line 131 It is also interesting that should be It is also found that Page 3 line 158 to reveal periodic processes additional observation materials is necessary should be to reveal periodicity additional observational materials are necessary Page 3 line 164 determined for mean velocities should be determined the mean velocities III. Results and discussion Page 4 line 177 These changes may be a sign of complex motions	

	should be These changes may be an indication of complex motions IV. Conclusions Page 5 line 233 First time should be For the first time Figures Page 6 label of figure 1 must be corrected for another star I mean HD187982 must be HD198478	
Optional/General comments		

Reviewer Details:

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Department, University & Country	**Astronomy Department, National Research Institute of Astronomy and Geophysics, Egypt**