

## HABILITATION THESIS REVIEWER'S REPORT

### Masaryk University

**Applicant**

Ernst Paunzen, Dr.rer.nat

**Habilitation thesis**

The  $\Delta a$  photometric system

**Reviewer**

Francesco Leone, Professore Associato

**Reviewer's home unit,  
institution**

Catania University, Physics and Astronomy Department

The Paunzen's habilitation thesis describes the history, characteristics, observations, results and future prospects of the  $\Delta a$  photometric system. This is a unique approach for a massive detecting of stars with anomalous chemical composition. Noticeable is its extension from the main sequence, what was intended, to other stellar evolutionary states. The amount of analysed data is incredibly large without loss of accuracy, encompassing several very different observational techniques. A significative effort is towards the interpretation by a comparison with theoretical atmosphere models. The high quality of the thesis is testified by the large number of papers published by Paunzen on this field.

**Reviewer's questions for the habilitation thesis defence** (number of questions up to the reviewer)

None

### Conclusion

The habilitation thesis entitled The  $\Delta a$  photometric system by Dr. Ernst Paunzen **fulfils** requirements expected of a habilitation thesis in the field of Theoretical Physics and Astrophysics.

Date:  
March 10, 2021

Signature: