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SWEETCat: A catalog of parameters for Star With ExoplanETs⋆

I. Stellar atmospheric parameters and masses

N.C. Santos[1,2], S. G. Sousa[1], A. Mortier[1,2], V. Neves[1,2], M. Tsantaki[1,2], E. Delgado Mena[1], V. Adibekyan[1], G. Israelian[3], S. Udry[4], and M. Mayor[4]

[1] Centro de Astrofísica, Universidade do Porto, Rua das Estrelas, 4150-762 Porto, Portugal
e-mail: nuno.santos@astro.up.pt
[2] Departamento de Física e Astronomia, Faculdade de Ciências, Universidade do Porto, Portugal
[3] Instituto de Astrofísica de Canarias, E-38200 La Laguna, Tenerife, Spain
[4] Observatoire de Genève, Université de Genève, 51 ch. des Maillettes, CH-1290 Sauverny, Switzerland

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ABSTRACT

Context. The precise determination of stellar parameters for the increasing number of extra-solar planets is critical for the understanding of planet formation processes, and to derive precise parameters for the planets themselves (e.g. mass, radius).
Aims. We present a new catalog of stellar parameters for FGK stars with planets.
Methods. The parameters were collected from the literature. Whenever possible, we compiled data from uniform studies of stellar parameters.
Results. We compile values of effective temperature, surface gravity, metallicity, and stellar mass for (almost) all planet host stars listed in the Extra-solar Planets Encyclopaedia.

Key words. planetary systems – Stars: solar-type – Stars: abundances – Catalogs

1. Introduction

1.0.1. General comments

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2. Conclusions and future versions

Expansion to other elements, activity, vsini...

We suggest that, further to the present paper, the users cite the parameter sources in case if a star-by-star analysis.

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⋆ Just to show the usage of the elements in the author field

Photometric calibrations	rms [dex]	offset [dex]	N	Spectroscopic calibrations	rms [dex]	offset [dex]	N
B05	0.27	-0.09	20	RA12	0.12	0.09	5
SL10	0.33	-0.04	20	M13	0.09	0.02	9
N12	0.25	-0.05	20	N13	0.11	0.10	3
JA12	0.17	0.04	20	Joined	0.10	0.06	17