

# List of publications – Prof. Dr. Gerald Handler

(3 November 2015)

## Peer-reviewed articles in major journals (127 total, 32 first-author)

Chromospheric emission in G and K giants and their rotation-activity relation

K. G. Strassmeier, G. Handler, E. Paunzen, M. Rauth, 1994, A&A 281, 855

The  $\delta$  Scuti star FG Virginis: I. Multiple pulsation frequencies determined with a combined DSN/WET campaign

M. Breger, G. Handler, R. E. Nather, et al., 1995, A&A 297, 473

Nonradial pulsation of the unevolved hot  $\delta$  Scuti star CD-24 7599 discovered with the Whole Earth Telescope

G. Handler, M. Breger, D. J. Sullivan, et al., 1996, A&A 307, 529

The  $\delta$  Scuti star FG Virginis: II. A search for high pulsation frequencies

M. Breger, G. Handler, E. Serkowitsch, et al., 1996, A&A, 309, 197

Variable central stars of young Planetary Nebulae: I. Photometric multisite observations of IC 418

G. Handler, R. H. Mendez, R. Medupe, et al., 1997, A&A, 320, 125

New Whole Earth Telescope observations of CD-24 7599: steps towards  $\delta$  Scuti star seismology

G. Handler, H. Pikall, D. O'Donoghue, et al., 1997, MNRAS, 286, 303

Frequency variability in the rapidly oscillating Ap star HR 3831: Three more years of monitoring

D. W. Kurtz, F. van Wyk, G. Roberts, F. Marang, G. Handler, R. Medupe, D. Kilkeny, 1997, MNRAS 287, 69

Nonvariability among  $\lambda$  Bootis stars

E. Paunzen, R. Kuschnig, G. Handler, M. Gelbmann, W. W. Weiss, 1997, A&AS 124, 23

The variability of a newly discovered  $\gamma$  Doradus star, HD 108100

M. Breger, G. Handler, R. Garrido et al., 1997, A&A, 324, 566

Complex light variations of the "hybrid" PG 1159 star HS 2324+3944

G. Handler, A. Kanaan, M. H. Montgomery, 1997, A&A 326, 692

On the new  $\lambda$  Bootis-type spectroscopic binary systems HD 84948 and HD 171948

E. Paunzen, U. Heiter, G. Handler et al., 1998, A&A 329, 155

On the frequency and amplitude variations of the  $\delta$  Scuti star CD-24 7599 (=XX Pyx)

G. Handler, A. A. Pamyatnykh, W. Zima, D. J. Sullivan, N. Audard, A. Nitta, 1998, MNRAS 295, 377

The  $\delta$  Scuti Star FG Vir. III. The 1995 multisite campaign and the detection of 24 pulsation frequencies

M. Breger, W. Zima, G. Handler et al., 1998, A&A 331, 271

Towards a seismic model of the  $\delta$  Scuti star XX Pyxidis

A. A. Pamyatnykh, W. A. Dziembowski, G. Handler, H. Pikall, 1998, A&A 333, 141

Pulsation in  $\lambda$  Bootis stars

E. Paunzen, W. W. Weiss, R. Kuschnig, G. Handler et al., 1998, A&A 335, 533

- A search for pulsations among low-mass DAO white dwarfs  
G. Handler, 1998, *A&A* 339, 170
- The pulsating  $\lambda$  Bootis star HD 105759  
P. Martinez, C. Koen, G. Handler, E. Paunzen, 1998, *MNRAS* 301, 1099
- A search for rapid oscillations in chemically peculiar A-type stars  
G. Handler, E. Paunzen, 1999, *A&AS* 135, 57
- The photometric behaviour of the peculiar PG 1159 star HS 2324+3944 at high frequency resolution  
R. Silvotti, S. Dreizler, G. Handler, J. Xiao-jun, 1999, *A&A* 342, 745
- Variable central stars of young Planetary Nebulae. A photometric study of M2-54  
G. Handler, 1999, *A&AS* 135, 493
- $\gamma$  Doradus stars: defining a new class of pulsating variables  
A. B. Kaye, G. Handler, K. Krisciunas, E. Poretti, F. Zerbi, 1999, *PASP* 111, 840
- 30+ frequencies of the  $\delta$  Scuti star 4 Canum Venaticorum. Results of the 1996 multisite campaign  
M. Breger, G. Handler, R. Garrido et al., 1999, *A&A* 349, 225
- The domain of  $\gamma$  Doradus variables in the HR diagram  
G. Handler, 1999, *MNRAS* 309, L19
- Accurate LTE abundances of seven well-established  $\lambda$  Bootis stars  
E. Paunzen, S. M. Andrievsky, I. V. Chernyshova, V. G. Klochkova, V. E. Panchuk, G. Handler, 1999, *A&A* 351, 981
- Abundance analysis of roAp stars. VI. 10 Aql and HD 122970  
T. A. Ryabchikova, I. S. Savanov, A. P. Hatzes, W. W. Weiss, G. Handler, 2000, *A&A* 357, 981
- Delta Scuti Network observations of XX Pyx: detection of 22 pulsation modes and of short-term amplitude and frequency variations  
G. Handler, T. Arentoft, R. R. Shobbrook et al., 2000, *MNRAS* 318, 511
- Time series photometry of the  $\delta$  Scuti Star XX Pyx. Introduction and overview  
G. Handler, T. Arentoft, R. R. Shobbrook et al., 2000, *JAD* 6, 4A
- Time series photometry of the  $\delta$  Scuti Star XX Pyx. Measurements from McDonald Observatory  
G. Handler, J. A. Guzik, T. E. Beach, 2000, *JAD* 6, 4B
- Time series photometry of the  $\delta$  Scuti star XX Pyx. Photoelectric observations from the Perth and Vainu Bappu Observatories  
P. V. Birch, P. Crake, G. Lowe, T. Smith, B. N. Ashoka, N. E. Raj, G. Handler, 2000, *JAD* 6, 4F
- The multiperiodic  $\delta$  Scuti star 4 CVn: 1997 Asian photometry  
A. Stankov, G. Handler, D. E. Mkrtichian, et al., 2000, *JAD* 6, 5
- The Discovery of an Outburst and Pulsed X-ray Flux from SMC X-2 from RXTE Observations  
R. H. D. Corbet, F. E. Marshall, M. J. Coe, S. Laycock, G. Handler, 2001, *ApJ* 548, L41
- Mode identification in the  $\delta$  Scuti Star 1 Mon  
L. A. Balona, B. Bartlett, J. Caldwell, J. Gaobakwe, G. Handler et al., 2001, *MNRAS* 321, 239
- Discovery and asteroseismological analysis of a new pulsating DB white dwarf star, PG 2246+121  
G. Handler, 2001, *MNRAS* 323, L43

- Low-frequency variations and binarity of the  $\delta$  Scuti star XX Pyx  
T. Arentoft, C. Sterken, G. Handler, 2001, MNRAS 326, 192
- UBVR<sub>I</sub>JH photometry of two new luminous  $\delta$  Scuti Stars and discovery of  $\delta$  Scuti pulsation in the most evolved Ap star known  
C. Koen, D. W. Kurtz, R. O. Gray, D. Kilkeny, G. Handler, F. Van Wyk, F. Marang, H. Winkler, 2001, MNRAS 326, 387
- V1162 Ori: A multiperiodic  $\delta$  Scuti star with variable period and amplitude  
T. Arentoft, C. Sterken, G. Handler, et al., 2001, A&A 374, 1056
- Irregular amplitude variations and another abrupt period change in the  $\delta$  Scuti star V1162 Ori  
T. Arentoft, C. Sterken, M. R. Knudsen, G. Handler, et al., 2001, A&A 378, L33
- Short period line profile and light variations in the Be star Omega Orionis  
L. A. Balona, C. Aerts, H. Bozic, A. Bruch, E. F. Guinan, G. Handler et al., 2002, MNRAS 327, 1288
- 29 frequencies for the  $\delta$  Scuti variable BI CMi: the 1997–2000 multisite campaigns  
M. Breger, R. Garrido, G. Handler, M. A. Wood, R. R. Shobbrook, et al., 2002, MNRAS 329, 531
- Discovery of the "missing" mode in HR 1217 by the Whole Earth Telescope  
D. W. Kurtz, S. D. Kawaler, R. L. Riddle, ... G. Handler, et al., 2002, MNRAS 330, L57
- The pulsational behaviour of the rapidly oscillating Ap star HD 122970 during two photometric multi-site campaigns  
G. Handler, W. W. Weiss, E. Paunzen et al., 2002, MNRAS 330, 153
- $\delta$  Scuti Stars in Praesepe. II. The STACC 1998 campaign - the spectroscopy  
T. H. Dall, S. Frandsen, H. Lehmann, G. C. Anupama, E. Kambe, G. Handler et al., 2002, A&A 385, 921
- On the relationship between the  $\delta$  Scuti and  $\gamma$  Doradus pulsators  
G. Handler, R. R. Shobbrook, 2002, MNRAS 333, 251
- Discovery and analysis of p-mode and g-mode oscillations in the A-type primary of the eccentric binary HD 209295  
G. Handler, L. A. Balona, R. R. Shobbrook, et al., 2002, MNRAS 333, 262
- The  $\delta$  Scuti star XX Pyx is an ellipsoidal variable  
C. Aerts, G. Handler, T. Arentoft, B. Vandenbussche, R. Medupe, C. Sterken, 2002, MNRAS 333, L35
- The unusual pulsation spectrum of the cool ZZ Ceti star HS 0507+0434B  
G. Handler, E. Romero-Colmenero, M. H. Montgomery, 2002, MNRAS 335, 399
- The asteroseismological potential of the pulsating DB white dwarf stars CBS 114 and PG 1456+103  
G. Handler, T. S. Metcalfe, M. A. Wood, 2002, MNRAS 335, 698
- On the period-luminosity-colour-metallicity relation and the pulsation characteristics of  $\lambda$  Bootis-type stars  
E. Paunzen, G. Handler, W. W. Weiss et al., 2002, A&A 392, 515
- Pulsating variable stars in the young open cluster NGC 4755  
A. Stankov, G. Handler, M. Hempel, P. Mittermayer, 2002, MNRAS 336, 189
- Pulsation of the  $\delta$  Scuti star  $\theta^2$  Tau: new multisite photometry and modelling of unstable modes  
M. Breger, A. A. Pamyatnykh, W. Zima, R. Garrido, G. Handler, P. Reegen, 2002, MNRAS 336, 249

- The elemental abundance pattern of nineteen  $\lambda$  Bootis candidate stars  
S. M. Andrievsky, I. V. Chernyshova, S. A. Korotin, Yu. V. Beletsky, L. Korotina, E. Paunzen, G. Handler, et al., 2002, A&A 396, 641
- Simultaneous uvby photometry of the new  $\delta$  Scuti-type variable HD 205  
E. Rodriguez, V. Costa, G. Handler, J. M. Garcia, 2003, A&A 399, 253
- Amplitude and frequency variability of the pulsating DB white dwarf stars KUV 05134+2605 and PG 1654+160 observed with the Whole Earth Telescope  
G. Handler, D. O'Donoghue, M. Müller, et al., 2003, MNRAS 340, 1031
- Asteroseismological studies of three  $\beta$  Cephei stars: IL Vel, V433 Car and KZ Mus  
G. Handler, R. R. Shobbrook, F. F. Vuthela, L. A. Balona, F. Rodler, T. Tshenye, 2003, MNRAS 341, 1005
- Preparing the COROT space mission: incidence and characterisation of pulsation in the Lower Instability Strip  
E. Poretti, R. Garrido, P.J. Amado, K. Uytterhoeven, G. Handler, et al. 2003, A&A 406, 203
- Constraining the evolution of ZZ Ceti  
A. S. Mukadam, S. O. Kepler, D. E. Winget, ... G. Handler, et al., 2003, ApJ 594, 961
- 2MASS J0516288+260738: Discovery of the first eclipsing M+Brown dwarf binary system?  
S. L. Schuh, G. Handler, H. Drechsel, et al., 2003, A&A 410, 649
- The rapidly rotating delta Scuti star AV Ceti  
T. H. Dall, G. Handler, M. B. Moalusi, S. Frandsen, 2003, A&A 410, 983
- Asteroseismology of the  $\beta$  Cephei star  $\nu$  Eridani: photometric observations and pulsational frequency analysis  
G. Handler, R. R. Shobbrook, M. Jerzykiewicz, et al., 2004, MNRAS 347, 454
- Asteroseismology of the  $\beta$  Cephei star  $\nu$  Eridani: spectroscopic observations and pulsational frequency analysis  
C. Aerts, P. De Cat, G. Handler, et al., 2004, MNRAS 347, 463
- The evolution of a hot subdwarf: observations of the pulsating subdwarf B star Feige 48  
M. D. Reed, S. D. Kawaler, S. Zola, ... G. Handler, ... et al. 2004, MNRAS 348, 1164
- The  $\delta$  Scuti Star FG Vir. V. The 2002 photometric multisite campaign  
M. Breger, F. Rodler, M. L. Pretorius, ... G. Handler, ... et al. 2004, A&A 419, 695
- Asteroseismology of the  $\beta$  Cephei star  $\nu$  Eridani: Interpretation and applications of the oscillation spectrum  
A. A. Pamyatnykh, G. Handler, W. A. Dziembowski, 2004, MNRAS 350, 1022
- Asteroseismology of the  $\beta$  Cephei star  $\nu$  Eridani: extended frequency analysis and mode identification  
J. De Ridder, J. H. Telting, L. A. Balona, G. Handler, M. Briquet, J. Daszynska, K. Lefever, C. Aerts, 2004, MNRAS 351, 324
- Catalog of galactic  $\beta$  Cephei stars  
A. Stankov, G. Handler, 2005, ApJS 158, 193
- Pushing the ground-based limit: 14- $\mu$ mag photometric precision with the definitive Whole Earth Telescope asteroseismic data set for the rapidly oscillating Ap star HR 1217  
D. W. Kurtz, C. Cameron, M. S. Cunha, ... G. Handler, ... et al. 2005, MNRAS 358, 651

An asteroseismic test of diffusion theory in white dwarfs

T. S. Metcalfe, R. E. Nather, T. K. Watson, S.-L. Kim, B.-G. Park, G. Handler, 2005, A&A 435, 649

Detection of 75+ pulsation frequencies in the  $\delta$  Scuti star FG Vir

M. Breger, P. Lenz, V. Antoci, E. Guggenberger, R. R. Shobbrook, G. Handler, et al. 2005, A&A 435, 955

Asteroseismology of the  $\beta$  Cephei star  $\nu$  Eridani - IV. The 2003-4 multisite photometric campaign and the combined 2002-4 data

M. Jerzykiewicz, G. Handler, R. R. Shobbrook, A. Pigulski, R. Medupe, T. Mokgwetsi, P. Tlhaqwane, E. Rodriguez, 2005, MNRAS 360, 619

An asteroseismic study of the  $\beta$  Cephei star  $\theta$  Ophiuchi: photometric results

G. Handler, R. R. Shobbrook, T. Mokgwetsi, 2005, MNRAS 362, 612

Whole Earth Telescope Observations of the ZZ Ceti star HL Tau 76

N. Dolez, G. Vauclair, S. J. Kleinman, ..., G. Handler, R. Silvotti, S. Bernabei, 2006, A&A 446, 237

Asteroseismology of the  $\beta$  Cephei star 12 (DD) Lacertae: photometric observations, pulsational frequency analysis and mode identification

G. Handler, M. Jerzykiewicz, E. Rodriguez et al., 2006, MNRAS 365, 327

The rapidly oscillating Ap star HD 99563 and its distorted dipole pulsation mode

G. Handler, W. W. Weiss, R. R. Shobbrook et al., 2006, MNRAS 366, 257

Analysis of helium-rich white dwarf IUE spectra

B. G. Castanheira, S. O. Kepler, G. Handler, D. Koester, 2006, A&A 450, 331

Photometric studies of three multiperiodic  $\beta$  Cephei stars:  $\beta$  CMa, 15 CMa and KZ Mus

R. R. Shobbrook, G. Handler, D. Lorenz, D. Mgorosi, 2006, MNRAS 369, 171

Whole Earth Telescope Observations of the pulsating subdwarf B star PG 0014+067

M. Vuckovic, S. D. Kawaler, S. O'Toole, ..., G. Handler, et al., 2006, ApJ 646, 1230

Asteroseismology of the PG 1159 star PG 0122+200

J.-N. Fu, G. Vauclair, J.-E. Solheim, ..., G. Handler, et al., 2007, A&A 467, 237

Multimode pulsations of the  $\lambda$  Bootis star 29 Cygni: the 1995 and 1996 multisite campaigns

D. E. Mkrtychian, A. V. Kusakin, P. Lopez de Coca, ..., G. Handler, et al., 2007, AJ 134, 1713

The pulsation modes of the pre-white dwarf PG 1159-035

J. E. S. Costa, S. O. Kepler, D. E. Winget, ..., G. Handler, et al., 2007, A&A 477, 627

The pulsating  $\lambda$  Bootis star 15 Andromedae: results from a three-site photometry campaign

T. N. Dorokhova, G. Handler, N. I. Dorokhov, E. Rodriguez, S. N. Udovichenko, 2008, A&A 480, 187

The pulsating DA white dwarf star EC 14012–1446: results from four epochs of time-resolved photometry

G. Handler, E. Romero-Colmenero, J. L. Provencal, et al., 2008, MNRAS 388, 1444

2006 Whole Earth Telescope Observations of GD358: A New Look at the Prototype DBV

J. L. Provencal, M. H. Montgomery, A. Kanaan, ... G. Handler, D. Lorenz et al., 2009, ApJ 693, 564

Asteroseismic analysis of the roAp star Circini: 84d of high-precision photometry from the WIRE satellite

H. Bruntt, D. W. Kurtz, M. S. Cunha, I. M. Brandao, G. Handler et al., 2009, MNRAS 396, 1189

An asteroseismic study of the  $\beta$  Cephei star 12 Lacertae: multisite spectroscopic observations, mode identification and seismic modelling

M. Desmet, M. Briquet, A. Thoul, W. Zima, P. De Cat, G. Handler et al., 2009, MNRAS 396, 1460

Asteroseismology of hybrid pulsators made possible: simultaneous *MOST* space photometry and ground-based spectroscopy of  $\gamma$  Peg

G. Handler, J. M. Matthews, J. A. Eaton et al., 2009, ApJ 698, L56

Confirmation of simultaneous p and g mode excitation in HD 8801 and  $\gamma$  Peg from time-resolved multi-colour photometry of six candidate "hybrid" pulsators

G. Handler, 2009, MNRAS 398, 1339

Ground-based photometry of space-based transit detections: photometric follow-up of the CoRoT mission

H. J. Deeg, M. Gillon, A. Shporer, ... G. Handler, et al., 2009, A&A 506, 343

Kepler Asteroseismology Program: Introduction and First Results

R. L. Gilliland, T. M. Brown, J. Christensen-Dalsgaard, ... G. Handler, et al., 2010, PASP 122, 131

Hybrid  $\gamma$  Doradus- $\delta$  Scuti pulsators: new insights into the physics of the oscillations from Kepler observations

A. Grigahcene, V. Antoci, L. A. Balona, ... G. Handler, et al., 2010, ApJ 713, L192

Photometric multi-site campaign on the open cluster NGC 884. I. Detection of the variable stars

S. Saesen, F. Carrier, A. Pigulski, C. Aerts, G. Handler, et al., 2010, A&A 515, 16

Discovery of a Nova-Like Cataclysmic Variable in the Kepler Mission Field

K. A. Williams, D. de Martino, R. Silvotti, ... G. Handler, 2010, AJ 139, 2587

Pulsational Mapping of Calcium Across the Surface of a White Dwarf

S. E. Thompson, M. H. Montgomery, T. von Hippel, ... G. Handler, et al., 2010, ApJ 714, 296

First Kepler results on compact pulsators I. Survey target selection and the first pulsators

R. H. Østensen, R. Silvotti, S. Charpinet, R. Oreiro, G. Handler et al., 2010, MNRAS 409, 1470

First Kepler results on compact pulsators II: KIC 010139564, a new pulsating subdwarf B (V361 Hya) star with an additional low-frequency mode

S. D. Kawaler, M. D. Reed, A. C. Quint, ... G. Handler, et al., 2010, MNRAS 409, 1487

First Kepler results on compact pulsators III: Subdwarf B stars with V1093 Her and hybrid (DW Lyn) type pulsations

M. D. Reed, S. D. Kawaler, R. H. Østensen, ... G. Handler, et al., 2010, MNRAS 409, 1496

First Kepler results on compact pulsators V: Slowly pulsating subdwarf B stars in short-period binaries

S. D. Kawaler, M. D. Reed, R. H. Østensen, ... G. Handler, et al., 2010, MNRAS 409, 1509

Kepler observations of the beaming binary KPD 1946+4340

S. Bloemen, T. R. Marsh, R. H. Østensen, ... G. Handler, et al., 2011, MNRAS 410, 1787

*uvby* $\beta$  photometry of early type open cluster and field stars

G. Handler, 2011, A&A 528, A148

Kepler observations of the variability in B-type stars

L. A. Balona, A. Pigulski, P. De Cat, G. Handler, et al., 2011, MNRAS 413, 2403

Cepheid investigations using the Kepler space telescope

R. Szabo, L. Szabados, C.-C. Ngeow, ... G. Handler, et al., 2011, MNRAS 413, 2709

The pulsations of PG 1351+489

M. Redaelli, S. O. Kepler, J. E. S. Costa, D. E. Winget, G. Handler, et al., 2011, MNRAS 415, 1220

The cool ZZ Ceti star PG 2303+243: observations and analysis of variability in 2004

E. Pakstiene, J. E. S. Solheim, G. Handler et al., 2011, MNRAS 415, 1322

New  $\beta$  Cephei stars in the young open cluster NGC 637

G. Handler, S. Meingast, 2011, A&A 533, A70

The excitation of solar-like oscillations in a  $\delta$  Scuti star by efficient envelope convection

V. Antoci, G. Handler, T. L. Campante, et al., 2011, Nature 477, 570

The Kepler characterization of the variability amongst A- and F-type stars. I. General overview

K. Uytterhoeven, A. Moya, A. Grigahcencu, J. A. Guzik, J. Gutierrez-Soto, B. Smalley, G. Handler, et al., 2011, A&A 534, 125

Eclipses During the 2010 Eruption of the Recurrent Nova U Scorpii

B. E. Schaefer, A. S. Pagnotta, A. P. LaCluyze, ... G. Handler, et al., 2011, ApJ 742, 113

Kepler observations of the high-amplitude  $\delta$  Scuti star V2367 Cyg

L. A. Balona, P. Lenz, V. Antoci, ... G. Handler, et al., 2012, MNRAS 419, 3028

New SPB stars in the field of the young open cluster NGC 2244 discovered by the MOST photometric satellite

D. Gruber, H. Saio, R. Kuschnig, L. Fossati, G. Handler, et al., 2012, MNRAS 420, 291

Empirical Determination of Convection Parameters in White Dwarfs I: Whole Earth Telescope Observations of EC14012-1446

J. L. Provencal, ... G. Handler, et al., 2012, ApJ 751, 91

The Hvar survey for roAp stars. I. The survey observations

E. Paunzen, M. Netopil, M. Rode-Paunzen, G. Handler, et al., 2012, A&A 542, A89

Unusual high-frequency oscillations in the Kepler  $\delta$  Scuti star KIC 4840675

L. A. Balona, M. Breger, G. Catanzaro, M. S. Cunha, G. Handler, et al., 2012, MNRAS 424, 1187

A multisite photometric study of two unusual  $\beta$  Cep stars: the magnetic V2052 Oph and the massive rapid rotator V986 Oph

G. Handler, R. R. Shobbrook, K. Uytterhoeven, et al., 2012, MNRAS 424, 2380

Multisite spectroscopic seismic study of the  $\beta$  Cep star V2052 Ophiuchi: inhibition of mixing by its magnetic field

M. Briquet, C. Neiner, C. Aerts, ... G. Handler, et al., 2012, MNRAS 427, 483

Kepler photometry and optical spectroscopy of the ZZ Lep central star of the Planetary Nebula NGC 6826: rotational and wind variability

G. Handler, R. K. Prinja, M. A. Urbaneja, V. Antoci, J. D. Twicken, T. Barclay, 2013, MNRAS 430, 2923

Asteroseismology of KIC 11754974: a high-amplitude SX Phe pulsator in a 343-day binary system

S. J. Murphy, A. Pigulski, D. W. Kurtz, J. C. Suarez, G. Handler, et al. 2013, MNRAS 432, 2284

Abundance analysis of the Gamma Doradus - Delta Scuti hybrid metallic line (Am) star HD 8801

R. Neuteufel, W. Weiss, G. Handler, 2013, AN 334, 638

- Time-resolved multicolour photometry of bright B-type variable stars in Scorpius  
G. Handler, A. Schwarzenberg-Czerny, 2013, *A&A* 557, A1
- Pulsating stars in NGC 6231. Frequency analysis and photometric mode identification near the main sequence  
S. Meingast, G. Handler, R. R. Shobbrook, 2013, *A&A* 559, A108
- Searching for solar-like oscillations in the  $\delta$  Scuti star  $\rho$  Puppis  
V. Antoci, G. Handler, F. Grundahl, et al. 2013, *MNRAS* 435, 1563
- M-Dwarf Fast Rotators and the Detection of Relatively Young Multiple M-Star Systems  
S. Rappaport, J. Swift, A. Levine, ... G. Handler, et al. 2014, *ApJ* 788, 114
- BRITE-Constellation: Nanosatellites for Precision Photometry of Bright Stars  
W. W. Weiss, S. M. Rucinski, A. F. J. Moffat, ... G. Handler et al., 2014, *PASP* 126, 573
- The role of turbulent pressure as a coherent pulsational driving mechanism: the case of the  $\delta$  Scuti star HD 187547  
V. Antoci, M. Cunha, G. Houdek... G. Handler et al., 2014, *ApJ* 796, 118
- Oscillation modes in the rapidly rotating Slowly Pulsating B-type star  $\mu$  Eridani  
J. Daszyńska-Daszkiewicz, W. A. Dziembowski, M. Jerzykiewicz, G. Handler, 2015, *MNRAS* 446, 1438
- The Hvar survey for roAp stars. II. Final results  
E. Paunzen, M. Netopil, M. Rode-Paunzen, G. Handler, H. Bozic, 2015, *A&A* 575, A24
- The 2010 Eruption of the Recurrent Nova U Scorpii: The Multi-wavelength Light Curve  
A. Pagnotta, B. E. Schaefer, J. L. Clem, A. U. Landolt, G. Handler, et al., 2015, *ApJ* 811, 32
- The 2003-4 multisite photometric campaign for the  $\beta$  Cephei and eclipsing star 16 (EN) Lacertae with an Appendix on 2 Andromedae, the variable comparison star  
M. Jerzykiewicz, G. Handler, J. Daszyńska-Daszkiewicz et al., 2015, *MNRAS*, 454, 724
- Planet Hunters X. KIC 8462852 - Where's the Flux?  
T. S. Boyajian, D. M. LaCourse, S. A. Rappaport, ... G. Handler, et al., 2015, *MNRAS*, in press

## Conference proceedings books

- Asteroseismology and Stellar Evolution  
Z. Kolláth & G. Handler (eds.), 2004, *Comm. Asteroseismology* Vol. 145
- Vienna Workshop on the Future of Asteroseismology  
G. Handler & G. Houdek (eds.), 2007, *Comm. Asteroseismology* Vol. 150
- Asteroseismology and Stellar Evolution  
S. Schuh & G. Handler (eds.), 2009, *Comm. Asteroseismology* Vol. 159
- Precision Asteroseismology  
J. A. Guzik, W. J. Chaplin, G. Handler, A. Pigulski (eds.), 2014, *Proc. IAU Symp.* 301, Cambridge University Press



## Book chapters

Asteroseismology

G. Handler, 2013, in "Planets, Stars and Stellar Systems", Vol. 4: "Stellar Structure and Evolution" eds. T. D. Oswalt & M. A. Barstow, Springer Verlag, p. 207

## Conference proceedings papers (103 total, 49 first-author)

Extending the Whole Earth Telescope technique to lower frequencies

M. Breger, G. Handler, 1993, *Baltic Astronomy* 2, 468

New WET observations of the  $\delta$  Scuti star CD-24 7599: amplitude variability and discovery of 13 pulsation modes

G. Handler, D. O'Donoghue, D. A. H. Buckley, et al., 1995 in "Astrophysical Applications of Stellar Pulsation", ed. R. S. Stobie & P.A. Whitelock, ASP Conf. Ser. 83, p. 331

Variable "cool" central stars of Planetary Nebulae

G. Handler, 1995, *Baltic Astronomy* 4, 357

CD-24 7599: new results

G. Handler, 1995, *Baltic Astronomy* 4, 434

Variable central stars of young Planetary Nebulae

G. Handler, 1997, in "Planetary Nebulae", ed. H. J. Habing & H. J. G. L. M. Lamers, Proc. IAU Symp. 180, p. 109

The variable "hybrid" PG 1159 star HS 2324+3944

G. Handler, A. Kanaan, M. H. Montgomery, 1997, in "Planetary Nebulae", ed. H. J. Habing & H. J. G. L. M. Lamers, Proc. IAU Symp. 180, p. 110

The Driving Mechanism of Pulsating Pre-White Dwarfs: Variability of the "Hybrid" PG 1159 Star HS 2324+3944

G. Handler, R. Silvotti, 1998, in "A Half Century of Stellar Pulsation Interpretations: A Tribute to Arthur N. Cox", eds. P. A. Bradley and J. A. Guzik, ASP Conference Series 135, 425

Observations Versus Theory: The  $\delta$  Scuti Star CD-24 7599

H. Pikall, G. Handler, A. A. Pamyatnykh, W. A. Dziembowski, 1998, in "A Half Century of Stellar Pulsation Interpretations: A Tribute to Arthur N. Cox", eds. P. A. Bradley and J. A. Guzik, ASP Conference Series 135, 486

The pulsating "hybrid" PG 1159 star HS 2324+3944: past, present and future

G. Handler, S. Dreizler, R. Silvotti, Jiang Xiao-jun, 1998, *Baltic Astronomy* 7, 105

Methodological aspects of  $\delta$  Scuti star seismology

G. Handler, 1998, *Baltic Astronomy* 7, 227

The Intermediate Polar PQ Gem - Status of WET observations of 1996

T. M. K. Marar, ..., G. Handler, et al., 1998, *Baltic Astronomy* 7, 287

Results of the multi-site photometric campaign on HS 2324+3944

R. Silvotti, S. Dreizler, G. Handler, X. J. Jiang, 1999, Proceedings of the 11th European Workshop on White Dwarfs, ed. J.-E. Solheim & E. G. Meistas, ASP Conf. Series 169, p. 100

New observations of the DA variable KUV 08368+4026

N. Dolez, G. Vauclair, Z. Xiao-Bin, M. Chevreton, G. Handler, 1999, Proceedings of the 11th European Workshop on White Dwarfs, ed. J.-E. Solheim & E. G. Meistas, ASP Conf. Series 169, p. 129

$\delta$  Scuti Stars: Selected Recent Highlights

G. Handler, 2000, in "The Impact of Large-Scale Surveys on Pulsating Star Research", eds. L. Szabados & D. W. Kurtz, ASP Conference Series 203, p. 408

The Newly-Discovered  $\gamma$  Doradus Variables

A. B. Kaye, G. Handler, K. Krisciunas, E. Poretti, F. Zerbi, 2000, in "The Impact of Large-Scale Surveys on Pulsating Star Research", eds. L. Szabados & D. W. Kurtz, ASP Conference Series 203, p. 426

First results of the 17th DSN campaign: Photometry of XX Pyx

T. Arentoft, G. Handler, R. R. Shobbrook, et al., 2000, in "The Impact of Large-Scale Surveys on Pulsating Star Research", eds. L. Szabados & D. W. Kurtz, ASP Conference Series 203, p. 469

Radial pulsation of the roAp star HD 122970?

G. Handler, E. Paunzen, R. Garrido, et al., 2000, in "The Impact of Large-Scale Surveys on Pulsating Star Research", ed. L. Szabados & D. W. Kurtz, ASP Conference Series 203, p. 490

1995-1998 Large-Scale Campaigns on  $\lambda$  Boo Star 29 Cygni

D. E. Mkrtichian, ... G. Handler, et al., 2000, in "The Impact of Large-Scale Surveys on Pulsating Star Research", eds. L. Szabados & D. W. Kurtz, ASP Conference Series 203, p. 494

The  $\delta$  Scuti Star XX Pyx: a key object for asteroseismology

T. Arentoft, G. Handler, in "Delta Scuti and Related Stars", eds. M. Breger & M. H. Montgomery, ASP Conference Series 210, p. 396

Period changes as a tool to study stellar evolution

G. Handler, 2000, in "Variable Stars as Essential Astrophysical Tools", ed. C. Ibanoglu, NATO Sci. Ser. C, Vol. 544, p. 557

Understanding the  $\gamma$  Doradus Phenomenon using MONS

F. M. Zerbi, C. Aerts, G. Handler, A. B. Kaye, E. Poretti, 2000, in "The Third MONS Workshop: Science Preparation and Target Selection", ed. T. C. Teixeira & T. R. Bedding, Aarhus University, p. 91

Chandra HETG Observation of the magnetic catalysmic variable V1223 Sgr

K. Mukai, E. Schlegel, T. Kallman, A. Bruch, G. Handler, J. Kemp, 2000, HEAD 32, 4108

Rotational splitting and possible resonances in the cool ZZ Ceti star HS 0507+0434B

G. Handler, E. Romero-Colmenero, 2001, in "12th European Workshop on White Dwarfs", ed. J. L. Provencal et al., ASP Conf. Ser. 226, p. 313

Chandra HETG Observation of the magnetic catalysmic variable V1223 Sgr

K. Mukai, E. Schlegel, T. Kallman, A. Bruch, G. Handler, J. Kemp, 2001, in "New Century of X-ray Astronomy", eds. H. Inoue & H. Kunieda, ASP Conference Series Vol. 251, p. 90

Omega Orionis and the Be stars

L. A. Balona, G. Handler, C. Aerts, et al., 2002, in "Observational Aspects of Pulsating B and A stars", eds. C. Sterken & D. W. Kurtz, ASP Conf. Ser. Vol. 256, p. 9

XX Pyxidis: The Mummy Returns

G. Handler, 2002, in "Observational Aspects of Pulsating B and A stars", eds. C. Sterken & D. W. Kurtz, ASP Conf. Ser. Vol. 256, p. 71

Multi-site observations of rapidly oscillating Ap stars: HD 99563 and HD 122970

G. Handler, W. W. Weiss, R. R. Shobbrook, et al. 2002, in "Observational Aspects of Pulsating B and A stars", eds. C. Sterken & D. W. Kurtz, ASP Conf. Ser. Vol. 256, p. 109

New bright candidate  $\delta$  Scuti stars from the HIPPARCOS unsolved variables

G. Handler, 2002, in "Observational Aspects of Pulsating B and A stars", eds. C. Sterken & D. W. Kurtz, ASP Conf. Ser. Vol. 256, p. 113

A progress report on the search for  $\delta$  Sct pulsations of  $\gamma$  Dor candidates in the classical instability strip

G. Handler, R. R. Shobbrook, 2002, in "Observational Aspects of Pulsating B and A stars", eds. C. Sterken & D. W. Kurtz, ASP Conf. Ser. Vol. 256, p. 117

Asteroseismology and forced oscillations of the Simultaneous p-Mode and g-Mode Pulsator HD 209295

G. Handler, L. A. Balona, R. R. Shobbrook, et al., 2002, in "Radial and Nonradial pulsations as probes of stellar physics", eds. C. Aerts et al., ASP Conf. Ser. Vol. 259, p. 90

The Delta Scuti Network: steps toward successful asteroseismology of  $\delta$  Scuti stars

W. Zima, ... G. Handler, R. R. Shobbrook, 2002, in "Radial and Nonradial pulsations as probes of stellar physics", eds. C. Aerts et al., ASP Conf. Ser. Vol. 259, p. 598

Towards ensemble asteroseismology of the pulsating DB white dwarf stars

G. Handler, M. A. Wood, A. Nitta, et al. 2002, in "Radial and Nonradial pulsations as probes of stellar physics", eds. C. Aerts et al., ASP Conf. Ser. Vol. 259, p. 608

The ZZ Leporis stars: variable central stars of young planetary nebulae

G. Handler, 2003, in "Interplay of Periodic, Cyclic and Stochastic Variability in Selected Areas of the H-R Diagram", ed. C. Sterken, ASP Conf. Ser. 292, p. 183

Temporal instabilities in the variations of pulsating white dwarf stars

G. Handler, 2003, in "Interplay of Periodic, Cyclic and Stochastic Variability in Selected Areas of the H-R Diagram", ed. C. Sterken, ASP Conf. Ser. 292, p. 247

Central stars of young Planetary Nebulae - a new class of variables

G. Handler, 2003, in "Planetary Nebulae: Their Evolution and Role in the Universe", ed. S. Kwok, M. Dopita & R. Sutherland, Proc. IAU Symp. 209, p. 237

Recent Work of the Delta Scuti Network

F. Rodler, M. Breger, W. Zima, K. Bischof, V. Antoci, G. Handler et al., 2003, in "Asteroseismology Across the HR Diagram", ed. M. J. Thompson, M. S. Cunha & M. J. P. F. G. Monteiro, p. 387

HD 205: a New Multiperiodic Delta Scuti Variable with a Very Complex Spectrum

E. Rodriguez, G. Handler, V. Costa, J. M. Garcia, in "Asteroseismology Across the HR Diagram", ed. M. J. Thompson, M. S. Cunha & M. J. P. F. G. Monteiro, p. 393

The  $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$  nuclear reaction rate from asteroseismology of the DBV white dwarf CBS 114

T. S. Metcalfe, G. Handler, 2003, in "Asteroseismology Across the HR Diagram", ed. M. J. Thompson, M. S. Cunha & M. J. P. F. G. Monteiro, p. 533

Group behaviour of the pulsating DB white dwarf stars

G. Handler, 2003, in "White Dwarfs", ed. D. de Martino et al., Kluwer, NATO Science Series II, p. 255

Preliminary results of the WET Xcov22 campaign at Calar Alto Observatory

S. L. Schuh, T. Nagel, J. L. Deetjen, S. Dreizler, G. Handler, et al. 2003, in "White Dwarfs", ed. D. de Martino et al., Kluwer, NATO Science Series II, p. 263

Results on (un)published WET runs on pulsating DB white dwarfs

G. Handler, 2003, *Baltic Astronomy* 12, 11

The pulsating DB white dwarf PG 1351+489

V. M. Alves, S. O. Kepler, G. Handler, et al., 2003, *Baltic Astronomy* 12, 33

PG 1605+072 in WET Xcov22: support for the multi site spectroscopic telescope

S. L. Schuh, U. Heber, S. Dreizler, S. O'Toole, C. S. Jeffery, S. Falter, V. M. Woolf, R. L. Riddle, G. Handler, et al. 2003, *Baltic Astronomy* 12, 55

Constraining the Evolution of ZZ Ceti

A. S. Mukadam, S. O. Kepler, D. E. Winget, ... , G. Handler, ..., et al. 2003, *Baltic Astronomy* 12, 71

High Precision with the Whole Earth Telescope: Lessons and Some Results from XCov20 for the roAp Star HR 1217

D. W. Kurtz, S. D. Kawaler, R. L. Riddle, ... , G. Handler, ..., et al. 2003, *Baltic Astronomy* 12, 105

Combining aperture and PSF-fitting photometry

G. Handler, 2003, *Baltic Astronomy* 12, 243

Merging data from large and small telescopes - good or bad? And: how useful is the application of statistical weights to time-series photometric measurements?

G. Handler, 2003, *Baltic Astronomy* 12, 253

Spectral investigation of new candidates to  $\lambda$  Bootis type stars

I. V. Chernyshova, S. M. Andrievsky, W. W. Weiss, E. Paunzen, S. A. Beletsky, Yu. A. Korotin, U. Heiter, G. Handler, M. Weber, 2003, in "Observing with the VLTT", EAS Publications Series, Vol. 6, p. 271

Probing magnetic fields inside  $\beta$  Cephei stars

G. Handler, 2003, in "International Conference on magnetic fields in O, B and A stars", ed. L. A. Balona, H. F. Henrichs & R. Medupe, ASP Conf. Ser. 305, 327

$\beta$  Cephei stars as (asteroseismo)logical targets for EDDINGTON

G. Handler, 2004, Proceedings of the 2nd EDDINGTON workshop, ESA-SP 538, p. 127

Additional science potential for COROT

W. W. Weiss, C. Aerts, S. Aigrain, ..., G. Handler, ... et al., 2004, Proceedings of the 2nd EDDINGTON workshop, ESA-SP 538, p. 435

Amplitude and frequency variability of pulsating stars

G. Handler, 2004, *Comm. Asteroseismology* No. 145, p. 69

Asteroseismology of the  $\beta$  Cephei star  $\nu$  Eridani: initial results

G. Handler, C. Aerts, 2004, *Proc. IAU Coll. 193*, ASP Conf. Ser. Vol. 310, p. 221

Asteroseismology with robotic telescopes

G. Handler, 2004, *AN* 325, 507

2MASS J0516288+260738: A New Low-mass Eclipsing Binary System

S. Schuh, H. Drechsel, P. Hauschildt, G. Handler, M. Endl, S. Dreizler 2004, *AN* 325, Suppl. 1, p. 84

Revisiting the DBs instability strip using UV spectra

B. G. Castanheira, S. O. Kepler, D. Koester, G. Handler, 2005, Proceedings of the 14th European Workshop on White Dwarfs, ASP Conf. Ser. Vol. 334, p. 557

The pulsating DA white dwarf star EC 14012-1446

G. Handler, E. Romero-Colmenero, 2005, Proceedings of the 14th European Workshop on White Dwarfs, ASP Conf. Ser. Vol. 334, p. 569

Asteroseismic results for GD 154

D. Ö. Hürkal, G. Handler, B. A. Steininger, M. D. Reed, 2005, Proceedings of the 14th European Workshop on White Dwarfs, ASP Conf. Ser. Vol. 334, p. 577

Asteroseismology of  $\delta$  Scuti and  $\gamma$  Doradus stars

G. Handler, 2005 Journal of Astrophysics and Astronomy 26, 241

Research Projects, Collaborations and Career Aspects: Evening Discussion Summary

G. Handler, 2006, in “Astrophysics of Variable Stars”, eds. C. Sterken & C. Aerts, ASP Conf. Ser. Vol. 349, 403

Observational aspects of asteroseismology

G. Handler, 2006, Comm. Asteroseismology, Vol. 147, p. 31

Observational aspects of main-sequence pulsators

G. Handler, 2006, Urania, Special Issue 2006, p. 4

The Seismology programme of CoRoT

E. Michel, A. Baglin, M. Auvergne, ... G. Handler et al., 2006, in “The CoRoT Mission”, eds. M. Fridlund et al., ESA Spec. Publ. 1306, p. 39

The ground-based observations in preparation and support of the seismology programme

C. Catala, E. Poretti, R. Garrido, ... G. Handler et al., 2006, in “The CoRoT Mission”, eds. M. Fridlund et al., ESA Spec. Publ. 1306, p.329

Commission 27: Variable Stars

C. Aerts, S. Kawaler, T. Bedding, ... G. Handler et al., 2007, IAU Transactions, Vol. 26A, p. 247

Monitoring of the cool ZZ Ceti star PG 2303+243

E. Pakstiene, J.-E. Solheim, G. Handler et al., 2007, in “Convection in Astrophysics”, eds. F. Kupka, I. Roxburgh & K. Chan, Proc. IAU Symp. 239, p. 382

$\delta$  stars in eclipsing binaries: the case of Y Cam

E. Rodriguez, J. M. Garcia, V. Costa, ... G. Handler, D. E. Mkrtichian, 2007, Comm. Asteroseismology, Vol. 150, 63

The ongoing 2005–2006 campaign on  $\beta$  Cephei stars in NGC 6910 and  $\chi$  Persei (NGC 884)

A. Pigulski, G. Handler, G. Michalska et al., 2007, Comm. Asteroseismology, Vol. 150, 191

Pulsating variables in NGC 3293, the open cluster with the most  $\beta$  Cephei stars known

G. Handler, T. Tuvikene, D. Lorenz et al., 2007, Comm. Asteroseismology, Vol. 150, 193

A spectroscopic study of the  $\beta$  Cephei star 12 (DD) Lacertae

M. Desmet, M. Briquet, P. De Cat, C. Aerts, G. Handler et al., 2007, Comm. Asteroseis., Vol. 150, 195

Abell 43 and PG 0122+200: a look at the beginning and at the end of the PG 1159 instability strip

G. Vauclair, J.-E. Solheim, J.-N. Fu, ... G. Handler, et al., 2007, in “15th European Workshop on White Dwarfs”, eds. R. Napiwotzki & M. R. Burleigh, ASP Conf. Ser. Vol. 372, 641

$\beta$  Cephei and Slowly Pulsating B stars as targets for BRITe-Constellation

G. Handler, 2008, Comm. Asteroseismology, Vol. 152, 160

The  $\beta$  Cephei star HD 167743

V. Antoci, G. Handler, R. R. Shobbrook, E. Romero-Colmenero, S. Barmania, R. Spann, 2008, JPhCS 118, 012045

Constraining convection parameters from the light curve shapes of pulsating white dwarf stars: the cases of EC 14012-1446 and WD 1524-0030

G. Handler, J. L. Provencal, M. H. Montgomery, et al., 2008, JPhCS 118, 012057

Photometric multi-site campaign on massive B stars in the open cluster  $\chi$  Persei (NGC 884)

S. Saesen, A. Pigulski, F. Carrier, J. De Ridder, C. Aerts, G. Handler, et al., 2008, JPhCS 118, 012071

Pulsational mode identification from multi-colour photometry - an observer's point of view

G. Handler, 2008, Comm. Asteroseismology 157, 106

Asteroseismology in the young open cluster NGC 3293

G. Handler, T. Tuvikene, D. Lorenz et al., 2008, Comm. Asteroseismology 157, 315

Rho Puppis: some spectroscopic results

V. Antoci, N. Nesvacil, G. Handler, 2008, Comm. Asteroseismology 157, 286

Commission 27: Variable Stars

S. D. Kawaler, G. Handler, C. Aerts et al., 2008, IAU Transactions, Vol. 27A, p. 254

Preliminary XCOV26 Results for EC14012-1446

J. L. Provencal, S. E. Thompson, M. H. Montgomery, ... G. Handler et al., 2009, JPhCS 172, 012061

Asteroseismology of massive stars in the young open cluster NGC 884: a status report

S. Saesen, F. Carrier, A. Pigulski, C. Aerts, G. Handler, et al., 2009, Comm. Asteroseismology 158, 179

The First  $\beta$  Cephei Star Discovered by MOST

V. Antoci, G. Handler, M. Hareter, R. Kuschnig, J. M. Matthews, 2009, AIPC 1170, 373

Delta Scuti Variables

G. Handler, 2009, AIPC 1170, 403

The Delta Scuti Star Rho Puppis: the Perfect Target to Probe the Theory Predicting Solar-like Oscillations in Cool Delta Scuti Stars

V. Antoci, G. Handler, F. Carrier, F. Grundahl, J. M. Matthews, M. Hareter, R. Kuschnig, G. Houdek, 2009, AIPC 1170, 440

"Hybrid" pulsators - fact or fiction?

G. Handler, 2009, Comm. Asteroseismology 159, 42

Search for sdB/WD pulsators in the Kepler FOV

R. Silvotti, G. Handler, S. Schuh, B. Castanheira, H. Kjeldsen, 2009, Comm. Asteroseis. 159, 97

Commission C27: Variable Stars

S. Kawaler, G. Handler, C. Aerts et al., 2010, IAU Transactions, Vol. 27, p. 209

Constraints of a pulsation frequency on stellar parameters in the eclipsing spectroscopic binary system V577 Oph

O. L. Creevey, J. Telting, J. A. Belmonte, T. M. Brown, G. Handler et al., 2010, AN 331, 952

Kepler observations: Light shed on the hybrid  $\gamma$  Doradus -  $\delta$  Scuti pulsation phenomenon

A. Grigahcene, K. Uytterhoeven, V. Antoci, ... G. Handler, et al., 2010, AN 331, 989

Ground-based observations of Kepler asteroseismic targets

K. Uytterhoeven, R. Szabo, J. Southworth, ... G. Handler et al., 2010, AN 331, P30

Towards ensemble asteroseismology of the young open clusters Chi Persei and NGC 6910

S. Saesen, A. Pigulski, F. Carrier, G. Michalska, C. Aerts, J. De Ridder, M. Briquet, G. Handler et al., 2010, AN 331, 1080

The 2010 Eruption of the Recurrent Nova U Scorpii

A. S. Pagnotta, B. E. Schaefer, A. U. Landolt, ... G. Handler, et al., 2011, AAS Meeting #217, #338.14

Hybrid pulsators among A/F-type stars

G. Handler, 2012, in "Proceedings of the 61st Fujihara Seminar: progress in solar/stellar physics with helio and asteroseismology", ed. H. Shibahashi, ASP Conf. Ser. 462, 111

Division V: Variable Stars

S. D. Kawaler, I. Ribas, A. Gimenez, ... G. Handler, S. M. Rucinski, 2012, IAU Transactions B, 28, 211

Commission 27: Variable Stars

G. Handler, K. R. Pollard, M. S. Cunha, et al., 2012, IAU Transactions B, 28, 213

Extreme Amplitude Variations of the Pulsating DB White Dwarf Star PG 1456+103 Traced with the Whole Earth Telescope

G. Handler & the WET network of collaborators, 2013, in *18th European White Dwarf Workshop*, ed. J. Krzesinski, G. Stachowski, P. Moskalik & K. Bajan, ASP Conf. Ser. 469, p. 53

The ZZ Leporis Stars: Wind-variable Central Stars of Young Planetary Nebulae

G. Handler, R. K. Prinja, V. Antoci, M. A. Urbaneja, 2013, in *18th European White Dwarf Workshop*, ed. J. Krzesinski, G. Stachowski, P. Moskalik & K. Bajan, ASP Conf. Ser. 469, p. 271

What can we expect from precision asteroseismology?

G. Handler, 2014, in *Precision Asteroseismology*, ed. J. A. Guzik, W. J. Chaplin, G. Handler, A. Pigulski, Proc. IAU Symp. 301, Cambridge University Press, p. 23

BRITE-Constellation: Nanosatellites for Precision Photometry of Bright Stars

W. W. Weiss, A. F. J. Moffat, A. Schwarzenberg-Czerny ... G. Handler et al., 2014, in *Precision Asteroseismology*, ed. J. A. Guzik, W. J. Chaplin, G. Handler, A. Pigulski, Proc. IAU Symp. 301, Cambridge University Press, p. 67

The diverse pulsational behaviour of  $\beta$  Cep stars: results from long-term monitoring

G. Handler, 2014, in *Precision Asteroseismology*, ed. J. A. Guzik, W. J. Chaplin, G. Handler, A. Pigulski, Proc. IAU Symp. 301, Cambridge University Press, p. 417

Variable stars in the field of the young open cluster Roslund 2

P. Sowicka, G. Handler et al., 2014, in *Precision Asteroseismology*, ed. J. A. Guzik, W. J. Chaplin, G. Handler, A. Pigulski, Proc. IAU Symp. 301, Cambridge University Press, p. 495

Seismic analysis of the massive Cephei star 15 Canis Majoris

P. Walczak, G. Handler, 2015, in *New windows on massive stars: asteroseismology, interferometry, and spectropolarimetry*, ed. G. Meynet et al., Proc. IAU Symp. 307, Cambridge University Press, p. 239

## **Additional publications (48 total, 28 first-author)**

CD-24 7599, a new  $\delta$  Scuti star discovered with the Whole Earth Telescope

G. Handler, 1993, Delta Scuti Star Newsletter 6, 8

Nichtradiale Pulsationen des unentwickelten heißen  $\delta$  Scuti Sterns CD-24 7599  
G. Handler, 1994, Master's thesis, University of Vienna

GM Com, a new slowly variable early F star? or: collecting the pieces of the puzzle  
G. Handler, 1994, Delta Scuti Star Newsletter 7, 11

Multiperiodic photometric variations of HD 210111 and suspected variability of HD 210049  
E. Paunzen, G. Handler, W. W. Weiss, P. North, 1994, IBVS 4094

Detection of 13 pulsation modes of CD-24 7599 by WET observations  
G. Handler, 1995, Delta Scuti Star Newsletter 8, 1

HD 147491 is variable, but it is not a  $\delta$  Scuti star  
G. Handler, 1995, IBVS 4188

A list of variable stars similar to  $\gamma$  Dor  
K. Krisciunas, G. Handler, 1995, IBVS 4195

uvbybeta photometry of stars of "astrophysical interest"  
G. Handler, 1995, IBVS 4216

Photometric variations of the central star of M 1-77 and suspected variability of the central star of VV 3-5  
G. Handler, 1995, IBVS 4244

The 1995 FG Vir campaign: will 550 hours of new data and 19 frequencies be enough to do asteroseismology?  
M. Breger, G. Handler, E. Serkowitsch, et al., 1995, Comm. Asteroseismology, No. 83

New  $\delta$  Scuti stars discovered at McDonald Observatory  
G. Handler, E. Paunzen, 1995, Delta Scuti Star Newsletter 9, 6

Three new variable planetary nebula central stars: M 2-54, M 4-18 and NGC 2392  
G. Handler, 1996, IBVS 4283

Pulsation of HD 83041 and HD 221756  
E. Paunzen, G. Handler, 1996, IBVS 4301

New photometric data for HD 142703 and HD 192640  
E. Paunzen, G. Handler, 1996, IBVS 4318

Nonvariability among  $\lambda$  Bootis stars. III.: CTIO (1995) and McDonald (1995) data  
E. Paunzen, G. Handler, W. W. Weiss, 1996, IBVS 4351

Frequency and amplitude variations of CD-24 7599  
G. Handler, 1996, Delta Scuti Star Newsletter 10, 21

A new  $\gamma$  Doradus star, HD 108100  
M. Breger, G. Handler, R. Garrido, et al., 1996, Delta Scuti Star Newsletter 10, 24

An updated list of  $\gamma$  Doradus stars  
G. Handler, K. Krisciunas, 1997, Delta Scuti Star Newsletter 11, 3

The 17th run of the Delta Scuti Network: Asteroseismology of CD-24 7599  
G. Handler, M. Breger, Delta Scuti Star Newsletter 11, 10

Pulsating members of the  $\lambda$  Bootis group  
E. Paunzen, R. Kuschnig, W. W. Weiss, G. Handler, et al., 1997, Comm. Asteroseismology, No. 101



The Nature of V829 Aql - A Triple-Mode Radially Pulsating Post Main Sequence  $\delta$  Scuti Star  
G. Handler, H. Pikall, R. Diethelm, 1998, IBVS 4549

HD 17892, a new  $\delta$  Scuti star  
G. Handler, 1998, IBVS 4550

The 17th run of the Delta Scuti Network - Asteroseismology of XX Pyx: first results  
G. Handler, 1998, Delta Scuti Star Newsletter 12, 8

Variable central stars of young Planetary Nebulae  
G. Handler, 1999, PhD thesis, University of Vienna

The domain of  $\gamma$  Doradus variables in the HR diagram  
G. Handler, 1999, Delta Scuti Star Newsletter 13, 6

New uvbybeta photometry of stars of “astrophysical interest”  
G. Handler, 1999, IBVS 4817

Two in One: Discovery of  $\delta$  Scuti pulsations in a  $\gamma$  Doradus star  
G. Handler, 1999, SAAO Newsletter 33, 1

HD 87271, a new pulsating classical  $\lambda$  Bootis Star  
G. Handler, R. O. Gray, R. R. Shobbrook, 2000, IBVS 4876

A second “hybrid”  $\gamma$  Doradus/ $\delta$  Scuti star  
G. Handler, 2000, SAAO Newsletter 34, p. 2

The unusual cool ZZ Ceti star HS 0507+0434B  
G. Handler, E. Romero-Colmenero, 2000, SAAO Newsletter 34, p. 3

One New and One Suspected  $\delta$  Scuti Star: HD 192871 and HD 230990  
G. Handler, E. Paunzen, 2001, IBVS 5019

On the Variability of Three Guide Star Catalogue stars  
E. Paunzen, C. Foellmi, G. Handler, 2001, IBVS 5030

Anomalous cycles of XX Pyxidis?  
G. Handler, 2001, Comm. Asteroseismology 140, 6

763 hours of observations: a report of two APT campaigns on BI CMi  
F. Rodler, G. Handler, 2001, Comm. Asteroseismology 140, 27

Mode identification in the  $\delta$  Scuti star 1 Mon  
L. A. Balona, B. Bartlett, J. A. R. Caldwell, J. Gaobakwe, G. Handler et al., 2001, Comm. Asteroseismology 140, 50

First results from a multisite campaign on AV Cet  
T. H. Dall, G. Handler, M. B. Moalusi, 2002, Comm. Asteroseismology 142, 6

A five-month multitechnique, multisite campaign for the  $\beta$  Cephei star  $\nu$  Eridani  
G. Handler, C. Aerts, 2002, Comm. Asteroseismology 142, 20

1994 multisite photometry of the  $\delta$  Scuti star  $\theta^2$  Tau  
M. Breger, W. Zima, R. Garrido, G. Handler, et al., 2002, Comm. Asteroseismology 142, 25

New photometry of the roAp star 33 Lib  
D. W. Kurtz, G. Handler, B. Ngwato, 2005, IBVS 5647

A Photometric Null Result in the Search for Pulsations of the Luminous Rapidly Oscillating Ap Star HD 116114

D. Lorenz, G. Handler, D. W. Kurtz, 2005, IBVS 5651

Five new  $\beta$  Cephei stars revealed in ASAS photometry

G. Handler, 2005, IBVS 5667

A new photometric study of the high galactic latitude  $\beta$  Cephei star HN Aqr

G. Handler, R. R. Shobbrook, 2008, Comm. Asteroseismology 156, 13

A three-site photometric campaign on the ZZ Ceti star WD 1524-0030

G. Handler, J. L. Provencal, M. Lendl, M. H. Montgomery, P. Beck, 2008, Comm. Asteroseismology 156, 18

First asteroseismic results from CoRoT

E. Michel, A. Baglin, W. W. Weiss, ... G. Handler, et al., 2008, Comm. Asteroseismology 156, 73

Recurrent Nova U Sco Shows Deep Optical Eclipses During Plateau Phase

B. E. Schaefer, A. Pagnotta, B. Allen, ... G. Handler, 2010, ATel 2452

Recurrent Nova U Sco Has Sharp Decline in X-ray/UV/Optical/IR

B. E. Schaefer, A. Pagnotta, J. P. Osborne, ... G. Handler, et al., 2010, ATel 2477

An Apparent Second Plateau in the UBVRIJHK Eruption Light Curve of the Recurrent Nova U Sco

A. Pagnotta, B. E. Schaefer, G. Handler, et al., 2010, ATel 2507

Search for rapid oscillations among seven northern CP stars

E. Paunzen, G. Handler, et al., 2013, IBVS 6058