

List of Publications (06/2021)

A. Refereed publications (443)	1
B. Reviews (34)	47
C. Conference proceedings etc. (175)	50
D. Abstracts (141)	66
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In publications with my students or postdocs their names are underlined when this work was completed (or partially carried out) while they held their position with me.

A. Refereed Publications

1. Menon, S.H., Grasha, K., Elmegreen, B.G., Federrath, C., Krumholz, M.R., Calzetti, D., Sánchez, N., Linden, S.T., Adamo, A., Messa, M., Cook, D.O., Dale, D.A., Grebel, E.K., Fumagalli, M., Sabbi, E., Johnson, K.E., Smith, L.J., & Kennicutt, R.C.
The Dependence of the Hierarchical Distribution of Star Clusters on Galactic Environment
2021, MNRAS, submitted
2. Dékány, I., Grebel, E.K., & Pojmanski, G.
Metallicity estimation of RR Lyrae stars from their I-band light curves
2021, ApJ, submitted
3. Gatto, M., Ripepi, V., Bellazzini, M., Tosi, M., Cignoni, M., Tortora, C., Leccia, S., Clementini, G., Grebel, E.K., Longo, G., Marconi, M., & Musella, I.
STEP Survey II: Structural Analysis of 170 star clusters in the SMC
2021, MNRAS, submitted
4. Orozco-Duarte, R., Wofford, A., Vidal-García, A., Bruzual, G., Charlot, S., Krumholz, M., Hannon, S., Lee, J., Wofford, T., Fumagalli, M., Dale, D., Messa, M., Grebel, E.K., Smith, L., Grasha, K., & Cook, D.
Synthetic photometry of OB star clusters with stochastically sampled IMFs: analysis of models and HST observations
2021, MNRAS, submitted
5. Fabrizio, M., Braga, V.F., Crestani, J., Bono, G., Ferraro, I., Fiorentino, G., Iannicola, G., Preston, G.W., Sneden, C., Thévenin, F., Altavilla, G., Chaboyer, B., Dall’Ora, M., da Silva, R., Grebel, E.K., Gilligan, C.K., Lala, H., Lemasle, B., Marengo, M., Marinoni, S., Marrese, P.M., Martínez-Vázquez, C.E., Matsunaga, N., Monelli, M., Mullen, J.P., Neeley, J., Nonino, M., Prudil, Z., Salaris, M., Stetson, P.B., Valenti, E., & Zoccali, M.
On the use of field RR Lyrae as Galactic probes: IV. The inner nature of the Oosterhoff dichotomy
2021, ApJ, submitted
6. Engler, C., Pillepich, A., Pasquali, A., Nelson, D., Rodriguez-Gomez, V., Chua, K.T.E., Grebel, E.K., Springel, V., Marinacci, F., Weinberger, R., Vogelsberger, M., & Hernquist, L.
The abundance of satellites around Milky Way- and M31-like galaxies with the TNG50 simulation: a matter of diversity
2021, MNRAS, submitted (arXiv:2101.12215)

7. Jackson, T.M., Pasquali, A., La Barbera, F., More, S., Grebel, E.K.
The Nature and Origins of the Low-Surface-Brightness Outskirts of Massive Central Galaxies in Subaru HSC
2021, MNRAS, submitted (arXiv:2102.02241)
8. Abbas, M., Grebel, E.K., Simunovic, M.
RR Lyrae Stars In Stellar Streams with Gaia: The Escapers
2021, ApJ, in press (arXiv:2106.00702)
9. Medina, G.E., Lemasle, B., Grebel, E.K.
A Revisited Study of Cepheids in Open Clusters in the Era of Gaia DR2
2021, MNRAS, in press (arXiv:2104.14565)
10. Crestani, J., Braga, V.F., Fabrizio, M., Bono, G., Sneden, C., Preston, G., Ferraro, I., Iannicola, G., Nonino, M., Fiorentino, G., Thévenin, F., Lemasle, B., Prudil, Z., Alves-Brito, A., Altavilla, G., Chaboyer, B., Dall’Ora, M., D’Orazi, V., Gilligan, C., Grebel, E.K., Koch-Hansen, A., Lala, H., Marengo, M., Marinoni, S., Marrese, P.M., Martínez-Vázquez, C.E., Matsunaga, N., Monelli, M., Mullen, J.P., Neeley, J., da Silva, R., Stetson, P.B., Salaris, M., Storm, J., Valenti, E., & Zoccali, M.
On the Use of Field RR Lyrae as Galactic Probes. III. The α -element Abundances
2021, ApJ, 914, 10 (15 pages)
11. Michea, J., Pasquali, A., Smith, R., Kraljic, K., Grebel, E.K., Calderón-Castillo, P., & Lisker, T.
Brought to Light I: Quantification of Disk Substructure in Dwarf Early-Type Galaxies
2021, AJ, in press (arXiv:2103.16579)
12. Smith, R., Michea, J., Pasquali, A., Calderón-Castillo, P., Kraljic, K., Paudel, S., Lisker, T., Shin, J., Ko, J., Peletier, R., Grebel, E.K.
Brought to Light II: Revealing the Origins of Cloaked Spiral Features in Cluster Passive Dwarf Galaxies
2021, ApJ, 912, 149 (15 pages)
13. Calzetti, D., Battisti, A.J., Shvarei, I., Messa, M., Cignoni, M., Adamo, A., Dale, D.A., Gallagher, J.S., Grasha, K., Grebel, E.K., Kennicutt, R.C., Linden, S.T., Östlin, G., Sabbi, E., Smith, L.J., Tosi, M., & Wofford, A.
Revisiting Attenuation Curves: the Case of NGC 3351
2021, ApJ, 913, 37 (31 pages)
14. Prudil, Z., Hanke, M., Lemasle, B., Crestani, J., Braga, V.F., Fabrizio, M., Koch-Hansen, A., Bono, G., Grebel, E.K., Matsunaga, N., Marengo, M., da Silva, R., Dall’Ora, M., Martínez-Vázquez, C.E., Altavilla, G., Lala, H., Chaboyer, B., Ferraro, I., Fiorentino, G., Gilligan, C., Nonino, M., & Thévenin, F.
Milky Way Archaeology Using RR Lyrae and Type II Cepheids. I. The Orphan Stream in 7D Using RR Lyrae Stars
2021, A&A, 648, A78 (20 pages)
15. Dagne Muhie, T., Dambis, A.K., Berdnikov, L.N., Kniazev, A.Y., & Grebel, E.K.
Kinematics and Multi-Band Period-Metallicity-Luminosity Relation of RR Lyrae Stars via Statistical Parallax
2021, MNRAS, 502, 4074 – 4092
16. Crestani, J., Fabrizio, M., Braga, V.F., Sneden, C., Preston, G., Ferraro, I., Iannicola, G., Bono, G., Alves-Brito, A., Nonino, M., D’Orazi, V., Inno, L., Monelli, M., Storm, J., Altavilla, G., Chaboyer, B., Dall’Ora, M., Fiorentino, G., Gilligan, C., Grebel, E.K., Lala, H., Lemasle, B., Marengo, M., Marinoni, S., Marrese, P.M., Martínez-Vázquez, C.E., Matsunaga, N., Mullen, J.P., Neeley, J., Prudil, Z., da Silva, R., Stetson, P.B., Thévenin, F., Valenti, E., Walker, A., & Zoccali, M.

- On the Use of Field RR Lyrae as Galactic Probes. II. A New ΔS Calibration to Estimate Their Metallicity**
 2021, ApJ, 908, 20 (19 pages)
17. Engler, C., Pillepich, A., Joshi, G.D., Nelson, D., Pasquali, A., Grebel, E.K., Lisker, T., Zinger, E., Donnari, M., Marinacci, F., Vogelsberger, M., & Hernquist, L.
The Distinct Stellar-to-Halo Mass Relations of Satellite and Central Galaxies: Insights from the IllustrisTNG Simulations
 2021, MNRAS, 500, 3957 – 3975
18. Guiglion, G., Matijević, G., Queroz, A.B.A., Valentini, M., Steinmetz, M., Chiappini, C., Grebel, E.K., McMillan, P.J., Kordopatis, G., Kunder, A., Zwitter, T., Khalatyan, A., Anders, F., Enke, H., Minchev, I., Monari, G., Wyse, R.F.G., Bienaymé, O., Bland-Hawthorn, J., Gibson, B.K., Navarro, J.F., Parker, Q., Reid, W., Seabroke, G.M., & Siebert, A.
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 2020, A&A, 644, A168 (29 pages)
19. Johnston, E.J., Puzia, T.H., D’Ago, G., Eigenthaler, P., Galaz, G., Häußler, B., Mora, M.D., Ordenes-Briceño, Y., Rong, Y., Spengler, C., Vogt, F., Côté, P., Grebel, E.K., Hilker, M., Mieske, S., Miller, B., Sánchez-Janssen, R., Taylor, M.A., & Zhang, H.-Y.
The Next Generation Fornax Survey (NGFS): VII. A MUSE view of the nuclear star clusters in Fornax dwarf galaxies
 2020, MNRAS, in press (arXiv:2005.01532)
20. Reichert, M., Hansen, C.J., Hanke, M., Skúladóttir, Á., Arcones, A., Grebel, E.K.
Neutron-capture elements in dwarf galaxies III: A homogenized analysis of 13 dwarf spheroidal and ultra-faint galaxies
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21. Hanke, M., Hansen, C.J., Ludwig, H.-G., Cristallo, S., Grebel, E.K., McWilliam, A., Piersanti, L.
A High-Precision Abundance Analysis of the Nuclear Benchmark Star HD 20
 2020, A&A, 635, A104 (28 pages)
22. Lemasle, B., Hanke, M., Storm, J., Bono, G., & Grebel, E.K.
Atmospheric parameters of Cepheids from flux ratios with ATHOS - I. The temperature scale
 2020, A&A, 641, A71 (15 pages)
23. Jackson, T.M., Pasquali, A., Pacifici, C., Engler, C., Pillepich, A., & Grebel, E.K.
The Stellar Mass Assembly of Low Redshift, Massive, Central Galaxies in SDSS and the TNG300 Simulation
 2020, MNRAS, 497, 4262 – 4275
24. Holmbeck, E.M., Hansen, T.T., Beers, T.C., Placco, V.M., Whitten, D.D., Rasmussen, K.C., Roederer, I.U., Ezzeddine, R., Sakari, C.M., Frebel, A., Drout, M.R., Simon, J.D., Thompson, I.B., Bland-Hawthorn, J., Gibson, B.K., Grebel, E.K., Kordopatis, G., Kunder, A., Meléndez, J., Navarro, J.F., Reid, W.A., Seabroke, G., Steinmetz, M., Watson, F., & Wyse, R.F.G.
The r-Process Alliance: Fourth Data Release from the Search for r-Process-Enhanced Stars in the Galactic Halo
 2020, ApJS, 249, 30 (13 pages)
25. Steinmetz, M., Matijević, G., Enke, H., Zwitter, T., Guiglion, G., McMillan, P.J., Kordopatis, G., Valentini, M., Chiappini, C., Casagrande, L., Wojno, J., Anguiano, B., Bienaymé, O., Bijaoui, A., Binney, J., Burton, D., Cass, P., de Laverny, P., Fiegert, K., Freeman, K., Fulbright, J.P., Gibson, B.K., Gilmore, G., Grebel, E.K., Helmi, A., Kunder, A., Munari, U., Navarro, J.F., Parker, Q., Ruchti, G.R., Recio-Blanco, A., Reid, W., Seabroke, G.M., Siviero, A., Siebert, A., Stupar, M., Watson, F., Williams, M.E.K., Wyse, R.F.G., Anders, F., Antoja, T., Birko,

- D., Bland-Hawthorn, J., Bossini, D., García, R.A., Carillo, I., Chaplin, W.J., Elsworth, Y., Famaey, B., Gerhard, O., Jofre, P., Just, A., Mathur, S., Miglio, A., Minchev, I., Monari, G., Mosser, B., Ritter, A., Rodrigues, T.S., Scholz, R.-D., Sharma, S., & Sysoliatina, K. (The RAVE Collaboration)
The Sixth Data Release of the Radial Velocity Experiment (RAVE) – I: Survey Description, Spectra, and Radial Velocities
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26. Steinmetz, M., Guiglion, G., McMillan, P.J., Matijević, G., Enke, H., Kordopatis, G., Zwitter, T., Valentini, M., Chiappini, C., Casagrande, L., Wojno, J., Anguiano, B., Bienaymé, O., Bijaoui, A., Binney, J., Burton, D., Cass, P., de Laverny, P., Fiegert, K., Freeman, K., Fulbright, J.P., Gibson, B.K., Gilmore, G., **Grebel**, E.K., Helmi, A., Kunder, A., Munari, U., Navarro, J.F., Parker, Q., Ruchti, G.R., Recio-Blanco, A., Reid, W., Seabroke, G.M., Siviero, A., Siebert, A., Stupar, M., Watson, F., Williams, M.E.K., Wyse, R.F.G., Anders, F., Antoja, T., Birk, D., Bland-Hawthorn, J., Bossini, D., García, R.A., Carillo, I., Chaplin, W.J., Elsworth, Y., Famaey, B., Gerhard, O., Jofre, P., Just, A., Mathur, S., Miglio, A., Minchev, I., Monari, G., Mosser, B., Ritter, A., Rodrigues, T.S., Scholz, R.-D., Sharma, S., & Sysoliatina, K. (The RAVE Collaboration)
The Sixth Data Release of the Radial Velocity Experiment (RAVE) – II: Stellar Atmospheric Parameters, Chemical Abundances, and Distances
2020, AJ, 160, 83 (43 pages)
27. Bidaran, B., Pasquali, A., Lisker, T., Coccato, L., Falcón-Barroso, J., van de Ven, G., Peletier, R., Emsellem, E., **Grebel**, E.K., La Barbera, F., Janz, J., Sybilska, A., Vijayaraghavan, R., Gallagher, J.S., & Gadotti, D.
On the accretion of a new group of galaxies on to Virgo: I. Internal kinematics of nine in-falling dEs
2020, MNRAS, 497, 1904 – 1924
28. Dékány, I., & **Grebel**, E.K.
Near-Infrared Search for Fundamental-mode RR Lyrae Stars Toward the Inner Bulge by Deep Learning
2020, ApJ, 898, 46 (13 pages)
29. Hajdu, G., Dékány, I., Catelan, M., & **Grebel**, E.K.
On the optimal calibration of VVV photometry
2020, Experimental Astronomy, 49, 217 – 238
30. Pilyugin, L.S., **Grebel**, E.K., Zinchenko, I.A., Lara-López, M.A., Nefedyev, Y.A., & Shulga, V.M.
Circumnuclear regions of different BPT types in star-forming MaNGA galaxies: AGN detectability
2020, A&A, 639, A96 (17 pages)
31. Bono, G., Braga, V.F., Crestani, J., Fabrizio, M., Sneden, C., Marconi, M., Preston, G.W., Mullen, J.P., Gilligan, C.K., Fiorentino, G., Pietrinferni, A., Altavilla, G., Buonanno, R., Chaboyer, B., da Silva, R., Dall’Ora, M., Degl’Innocenti, S., Di Carlo, E., Ferraro, I., **Grebel**, E.K., Iannicola, G., Inno, L., Kovtyukh, V., Kunder, A., Lemasle, B., Marengo, M., Marinoni, S., Marrese, P.M., Martínez-Vázquez, C.E., Matsunaga, N., Monelli, M., Neeley, J., Nonino, M., Prada Moroni, P.G., Prudil, Z., Stetson, P.B., Thévenin, F., Tognelli, E., Valenti, E., & Walker, A.R.
On the Metamorphosis of the Bailey Diagram for RR Lyrae Stars
2020, ApJ Letters, 896, L15 (9 pages)
32. Lin, Z., Calzetti, D., Kong, X., Adamo, A., Cignoni, M., Cook, D.O., Dale, D.A., Grasha, K., **Grebel**, E.K., Messa, M., Sacchi, E., & Smith, L.J.
The Age-Dependence of Mid-Infrared Emission Around Young Star Clusters
2020, ApJ, 896, 16 (19 pages)

33. Hanke, M., Koch, A., Prudil, Z., Grebel, E.K., & Bastian, U.
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2020, A&A, 637, A98 (28 pages)
34. Reina-Campos, M., Hughes, M.E., Kruijssen, J.M.D., Pfeffer, J.L., Bastian, N., Crain, R.A., Koch, A., Grebel, E.K.
The Mass Fraction of Halo Stars Contributed by the Disruption of Globular Clusters in the E-MOSAICS Simulations
2020, MNRAS, 493, 3422 – 3428
35. Wofford, A., Ramírez, V., Lee, J.C., Thilker, D.A., Della Bruna, L., Adamo, A., Van Dyk, S., Herrero, A., Kim, H., Aloisi, A., Calzetti, D., Chandar, R., Dale, D.A., de Mink, S.E., Gallagher, J.S., Gouliermis, D.A., Grasha, K., Grebel, E.K., Sacchi, E., Smith, L.J., Úbeda, L., Walterbos, R.A.M., Hannon, S., & Messa, M.
Candidate LBV Stars in Galaxy NGC 7793 Found Via HST Photometry + MUSE Spectroscopy
2020, MNRAS, 493, 2410–2428
36. Prudil, Z., Dékány, I., Smolec, R., Catelan, M., Grebel, E.K., Kunder, A.
Humps and bumps: The effects of shocks on the optical light curves of fundamental-mode RR Lyrae stars
2020, A&A, 635, A66 (12 pages)
37. Whitmore, B.C., Chandar, R., Lee, J., Ubeda, L., Adamo, A., Aloisi, A., Calzetti, D., Cignoni, M., Cook, D., Dale, D., Elmegreen, B.G., Gouliermis, D., Grebel, E.K., Grasha, K., Johnson, K.E., Kim, H., Sacchi, E., Smith, L.J., Tosi, M., & Wofford, A.
LEGUS and H α -LEGUS Observations of Star Clusters in NGC 4449: Improved Ages and the Fraction of Light in Clusters as a Function of Age
2020, ApJ, 2020, 889, 154 (31 pages)
38. Prudil, Z., Dékány, I., Grebel, E.K., Kunder, A.
Evidence for Galactic Disk RR Lyrae Stars in the Solar Neighborhood
2020, MNRAS, 492, 3408 – 3419
39. Pilyugin, L.S., Grebel, E.K., Zinchenko, I.A., Vílchez, J.M., Sakhov, F., Nefedyev, Y.A., & Berczik, P.P.
Properties of galaxies with an offset between the position angles of the major kinematic and photometric axes
2020, A&A, 634, A26 (15 pages)
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Star Formation Histories of the LEGUS Dwarf Galaxies (III): The Non-Bursty Nature of 23 Star-Forming Dwarf Galaxies
2019, ApJ, 887, 112 (26 pages)
41. Zeidler, P., Nota, A., Sabbi, E., Luljak, P., McLeod, A.F., Grebel, E.K., Pasquali, A., & Tosi, M.
The Young Massive Star Cluster Westerlund 2 Observed With MUSE. II. MUSEpack - a Python Package to Analyze the Kinematics of Young Star Clusters
2019, AJ, 158, 201 (14 pages)
42. Wittmann, C., Kotulla, R., Lisker, T., Grebel, E.K., Conselice, C.J., Janz, J., & Penny, S.J.
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43. Hannon, S., Lee, J.C., Whitmore, B.C., Chandar, R., Adamo, A., Mobasher, B., Aloisi, A., Calzetti, D., Cignoni, M., Cook, D.O., Dale, A., Deger, S., Della Bruna, L., Elmegreen, D.M., Gouliermis, D.A., Grasha, K., Grebel, E.K., Herrero, A., Hunter, D.A., Johnson, K.E., Kennicutt, R., Kim, H., Sacchi, E., Smith, L., Thilker, D., Turner, J., Walterbos, R.A.M., & Wofford, A.
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2019, MNRAS, 490, 4648–4665
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2019, A&A, 631, A98 (16 pages)
45. Dékány, I., Hajdu, G., Grebel, E.K., & Catelan, M.
Into the Darkness: Classical and Type II Cepheids in the Zona Galactica Incognita
2019, ApJ, 883, 58 (24 pages)
46. Birko, D., Zwitter, T., Grebel, E.K., Parker, Q.A., Kordopatis, G., Bland-Hawthorn, J., Freeman, K., Guiglion, G., Gibson, B.K., Navarro, J., Reid, W., Seabroke, G.M., Steinmetz, M., & Watson, F.
Single-lined Spectroscopic Binary Star Candidates from a Combination of the RAVE and Gaia DR2 Surveys
2019, AJ, 158, 155 (11 pages)
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2019, ApJ, 884, 112 (7 pages)
48. Rong, Y., Puzia, T.H., Eigenthaler, P., Ordenes-Briceño, Y., Taylor, M.A., Muñoz, R.P., Zhang, H., Galaz, G., Alamo-Martínez, K., Ribbeck, K.X., Grebel, E.K., Ángel, S., Côté, P., Ferrarese, L., Hilker, M., Mieske, S., Miller, B.W., Sánchez-Janssen, R., & Johnston, E.J.
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2019, ApJ, 883, 56 (6 pages)
49. Gvaramadze, V.V., Pakhomov, Yu.V., Kniazev, A.Y., Ryabchikova, T.A., Langer, N., Fossati, L., & Grebel, E.K.
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50. Zinchenko, I.A., Pilyugin, L.S., Sakhibov, F., Grebel, E.K., Just, A., Berczik, P., Nefedyev, Y.A., Vilchez, J.M., & Shulga, V.M.
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51. Kovtyukh, V., Lemasle, B., Kniazev, A., Berdnikov, L., Bono, G., Usenko, I., Grebel, E.K., Hajdu, G., & Pastukhova, E.
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2019, MNRAS, 488, 3211 – 3221

52. Lora, V., Grebek, E.K., Schmeja, S., Koch, A.
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2019, ApJ, 878, 152 (12 pages)
53. Prudil, Z., Dékány, I., Grebek, E.K., Catelan, M., Skarka, M., & Smolec, R.
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2019, MNRAS, 487, 3270 – 3278
54. Prudil, Z., Skarka, M., Liška, J., Grebek, E.K., Lee, C.-U.
Candidates for RR Lyrae in binary systems from the OGLE Galactic bulge survey
2019, MNRAS Letters, 487, L1 – L6
55. Koch, A., Grebek, E.K., & Martell, S.
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2019, A&A, 625, A75 (12 pages)
56. Sakari, C.M., Roederer, I.U., Placco, V.M., Beers, T.C., Ezzeddine, R., Frebel, A., Hansen, T., Sneden, C., Cowan, J.J., Wallerstein, G., Farrell, E.M., Venn, K.A., Matijevč, G., Wyse, R.F.G., Bland-Hawthorn, J., Chiappini, C., Freeman, K.C., Gibson, B.K., Grebek, E.K., Helmi, A., Kordopatis, G., Kunder, A., Navarro, J., Reid, W., Seabroke, G., Steinmetz, M., & Watson, F.
The r-Process Alliance: Discovery of a Low- α , r-Process-Enhanced Metal-poor Star in the Galactic Halo
2019, ApJ, 874, 148 (13 pages)
57. Johnston, E.J., Eigenthaler, P., Puzia, T.H., Ordenes-Briceño, Y., Taylor, M.A., Alamo-Martínez, K., Côté, P., Galaz, G., Grebek, E.K., Hilker, M., Lançon, A., Mieske, S., Sánchez-Janssen, R., & Rong, Y.
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58. Pilyugin, L.S., Grebek, E.K., Zinchenko, I.A., Nefedyev, Y.A., & Vílchez, J.M.
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59. Prudil, Z., Dékány, I., Catelan, M., Smolec, R., Grebek, E.K., & Skarka, M.
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