

Total Refereed: 133; 1st-authored: 14; Citations: 3948; h-index: 38; i10-index: 101

First-Author Publications

- [1] **F. Dai**, K. C. Schlaufman, H. Reggiani, et al., 2023, *The Astronomical Journal*, 166, 2, 49, [ADS](#)
A Mini-Neptune Orbiting the Metal-poor K Dwarf BD+ 29 2654
- [2] **F Dai**, A Masuda, C Beard, et al., 2023, *The Astronomical Journal*, 165, 2, 33, [ADS](#)
TOI-1136 is a Young, Coplanar, Aligned Planetary System in a Pristine Resonant Chain
- [3] **F Dai**, A Howard, N Batalha, et al., 2021, *The Astronomical Journal*, 162, 62, [ADS](#)
The TESS-Keck Survey. X: TOI-1444b and a Comparative Analysis of the Ultra-short-period Planets with Hot Neptunes
- [4] **F Dai**, R Roy, BJ Fulton, et al. 2020, *The Astronomical Journal*, 160, 193, [ADS](#)
The TESS-Keck Survey. III. A Stellar Obliquity Measurement of TOI-1726 c
- [5] **F Dai**, JN Winn, K Schlaufman, et al., 2020, *The Astronomical Journal*, 159, 247, [ADS](#)
California-Kepler Survey. IX. Revisiting the Minimum-mass Extrasolar Nebula with Precise Stellar Parameters
- [6] **F Dai**, K Masuda, JN Winn, L Zeng 2019, *The Astrophysical Journal*, 883, 1, [ADS](#)
Homogeneous Analysis of Hot Earths: Masses, Sizes, and Compositions
- [7] **F Dai**, K Masuda, JN Winn, 2018, *The Astrophysical Journal Letter*, 864, 2, L38, [ADS](#)
Larger Mutual Inclinations for the Shortest-period Planets
- [8] **F Dai**, JN Winn, Z Berta-Thompson, R Sanchis-Ojeda, S Albrecht, 2018, *The Astronomical Journal* 155, 177, [ADS](#)
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The Discovery and Mass Measurement of a New Ultra-short-period Planet: K2-131b
- [10] **F Dai**, JN Winn, 2017, *The Astronomical Journal* 153, 205, [ADS](#)
The Oblique Orbit of WASP-107b from K2 Photometry
- [11] **F Dai**, JN Winn, L Yu, S Albrecht, 2017, *The Astronomical Journal* 153, 40, [ADS](#)
The Stellar Obliquity, Planet Mass, and Very Low Albedo of Qatar-2 from K2 Photometry
- [12] **F Dai**, JN Winn, S Albrecht, P Arriagada, et al., 2016, *The Astrophysical Journal* 825, 53, [ADS](#)
Doppler Monitoring of five K2 Transiting Planetary Systems
- [13] **F Dai**, JN Winn, P Arriagada, RP Butler, JD Crane, et al., 2015, *The Astrophysical Journal Letters* 813, L9, [ADS](#)
Doppler Monitoring of the WASP-47 Multiplanet System
- [14] **F Dai**, S Facchini, CJ Clarke, TJ Haworth, 2015, *MNRAS* 449, 2, [ADS](#)
A Tidal Encounter Caught in the Act: Modelling a Star-disc Fly-by in the Young RW Aurigae System

Major-Contribution Publications

- [15] C. Beard, P. Robertson, **F Dai**, et al., 2024, *The Astronomical Journal*, 167, 2, 70, [ADS](#)
The TESS-Keck Survey. XVII. Precise Mass Measurements in a Young, High-multiplicity Transiting Planet System Using Radial Velocities and Transit Timing Variations
- [16] A Behmard, **F Dai**, et al., 2023, *Monthly Notices of the Royal Astronomical Society*, 521, 2, [ADS](#)
Planet engulfment detections are rare according to observations and stellar modelling
- [17] C. Brinkman, L. Weiss, **F Dai**, et al., 2023, *The Astronomical Journal*, 165, 3, 88, [ADS](#)
TOI-561 b: A Low-density Ultra-short-period Rocky Planet around a Metal-poor Star
- [18] A. Goyal, **F Dai**, S. Wang, 2023, *The Astrophysical Journal*, 955, 2, 118, [ADS](#)
Enhanced Size Uniformity for Near-resonant Planets
- [19] T Hirano, **F Dai**, et al., 2023, *The Astronomical Journal*, 165, 3, 131, [ADS](#)
An Earth-sized Planet around an M5 Dwarf Star at 22 pc
- [20] M Zhang, **F Dai**, et al., 2023, *The Astrophysical Journal Letters*, 953, 2, L25, [ADS](#)
Outflowing helium from a mature mini-Neptune
- [21] A Behmard, **F Dai**, A Howard, 2022, *The Astronomical Journal*, 163, 4

- Stellar Companions to TESS Objects of Interest: A Test of Planet-Companion Alignment*
[22] W. Zhu, K. Bernhard, **F Dai**, et al., 2022, *The Astrophysical Journal Letters* 933 (1), L21, [ADS](#)
Two Candidate KH 15Dlike Systems from the Zwicky Transient Facility
- [23] L Weiss, **F Dai**, et al., 2021, *The Astronomical Journal*, 161, 2, [ADS](#)
The TESS-Keck Survey. II. An Ultra-short-period Rocky Planet and Its Siblings Transiting the Thick-disk Star TOI-561
- [24] R Rubenzahl, **F Dai**, et al., 2021, *The Astronomical Journal*, 161, 3, [ADS](#)
TESS-Keck Survey. IV. A Retrograde, Polar Orbit for the Ultra-low-density, Hot Super-Neptune WASP-107b
- [25] L Wang & **F Dai**, 2021, *The Astrophysical Journal*, 914, 2, 98, [ADS](#)
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- [26] L Wang & **F Dai**, 2021, *The Astrophysical Journal*, 914, 2, 98, [ADS](#)
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- [27] M Zhang, H Knutson, L Wang, **F Dai**, et al., 2021, *The Astronomical Journal*, 161, 4, [ADS](#)
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- [28] M Zhang, H Knutson, L Wang, **F Dai**, et al., 2021, *The Astronomical Journal*, 163, 2, [ADS](#)
Detection of Ongoing Mass Loss from HD 63433c, a Young Mini Neptune
- [29] G Li, **F Dai** & J Becker, 2020, *The Astrophysical Journal Letters*, 890, 2 [ADS](#)
Mutual Inclination Excitation by Stellar Oblateness
- [30] J Livingston, **F Dai**, et al., 2019, *MNRAS*, 484, 1, [ADS](#)
K2-264: a Transiting Multiplanet System in the Praesepe Open Cluster
- [31] L Wang & **F Dai**, 2018, *The Astrophysical Journal Letters* 873, 1, L1, [ADS](#)
Dusty Outflows in Planetary Atmospheres: Understanding "Super-puffs" and Transmission Spectra of Sub-Neptunes
- [32] JH Livingston, M Endl, **F Dai**, et al., 2018, *The Astronomical Journal* 156 , 78 [ADS](#)
44 Validated Planets from K2 Campaign 10
- [33] MC Johnson, **F Dai**, et al., 2018, *MNRAS*, 481, 1, [ADS](#)
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- [34] L Wang & **F Dai**, 2018, *The Astrophysical Journal* 860, 175, [ADS](#)
Evaporation of Low-mass Planet Atmospheres: Multidimensional Hydrodynamics with Consistent Thermochemistry
- [35] W Zhu, **F Dai**, K Masuda, 2018, *Research Notes of the American Astronomical Society*, 2, 3, [ADS](#)
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- [36] V Van Eylen, **F Dai**, et al., 2018, *MNRAS*, 478, 4, [ADS](#)
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- [37] O Barragan, D Gandolfi, **F Dai**, et al., 2018, *Astronomy & Astrophysics* 612, A95, [ADS](#)
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- [38] T Hirano, **F Dai**, et al., 2018, *The Astronomical Journal* 155 , 127, [ADS](#)
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- [39] T Hirano, **F Dai**, et al., 2018, *The Astronomical Journal* 155 , 124, [ADS](#)
K2-155: A Bright Metal-poor M Dwarf with Three Transiting Super-Earths
- [40] JH Livingston, **F Dai**, et al., 2018, *The Astronomical Journal* 155 , 115, [ADS](#)
Three Small Planets Transiting a Hyades Star
- [41] P Niraula, S Redfield, **F Dai**, et al., 2017, *The Astronomical Journal* 154 , 266, [ADS](#)
Three Super-Earths Transiting the Nearby Star GJ 9827
- [42] EW Guenther, O Barragan, **F Dai**, et al., 2017, *Astronomy & Astrophysics* 608, A93, [ADS](#)
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- [43] R Sanchis-Ojeda, JN Winn, **F Dai**, et al., 2015, *The Astrophysical Journal Letters* 812 , L11, [ADS](#)
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- [45] H. Deeg, **including F Dai**, et al 2023, *Astronomy & Astrophysics*, 677, A12, [ADS](#)
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- [46] R. Frazier, **including F Dai**, et al 2023, *The Astrophysical Journal Letters* 944, 2, L41, [ADS](#)
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- [47] E. Goffo, **including F Dai**, et al 2023, *The Astrophysical Journal Letters*, 955, 1, L3, [ADS](#)
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- [48] C. Harada, **including F Dai**, et al 2023, *The Astronomical Journal* 166, 5, 208, [ADS](#)
Stability and detectability of exomoons orbiting HIP 41378 f, a temperate Jovian planet with an anomalously low apparent density
- [49] A. Householder, **including F Dai**, et al., 2023, *The Astronomical Journal*, 167, 2, 84, [ADS](#)
Investigating the Atmospheric Mass Loss of the Kepler-105 Planets Straddling the Radius Gap
- [50] J. Korth, **including F Dai**, et al 2023, *Astronomy & Astrophysics* 675, A115, [ADS](#)
TOI-1130: A photodynamical analysis of a hot Jupiter in resonance with an inner low-mass planet
- [51] E. Knudstrup, **including F Dai**, et al 2023, *Astronomy & Astrophysics* 671, A164, [ADS](#)
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- [53] R. Luque, **including F Dai**, et al., 2023, *Nature* 623, 932937, [ADS](#)
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- [54] M. Mallorquin, **including F Dai**, et al 2023, *Astronomy & Astrophysics* 680, A76, [ADS](#)
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- [55] J. Murphy, **including F Dai**, et al 2023, *The Astronomical Journal* 166, 4, 153, [ADS](#)
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- [56] M. Rice, **including F Dai**, et al 2023, *The Astronomical Journal* 165, 2, 65, [ADS](#)
The Orbital Architecture of Qatar-6: A Fully Aligned Three-body System?
- [57] S. Vissapragada, **including F Dai**, et al 2022, *The Astrophysical Journal Letters* 941, 2, L31, [ADS](#)
The Possible Tidal Demise of Keplers First Planetary System
- [58] J. Xuan, **including F Dai**, et al 2023, in press, [ADS](#)
Validation of elemental and isotopic abundances in late-M spectral types with the benchmark HIP 55507 AB system
- [59] D. Yong, **including F Dai**, et al 2023, *Monthly Notices of the Royal Astronomical Society*, 526, 2, 2181, [ADS](#)
C3PO: towards a complete census of co-moving pairs of stars I. High precision stellar parameters for 250 stars
- [60] S. Yoshida, **including F Dai**, et al 2023, *The Astronomical Journal* 166, 5, 181, [ADS](#)
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- [61] M Zhang, R Hu, J Inglis, **F Dai**, et al. 2023, *The Astrophysical Journal Letters*, 961, 2, L44, [ADS](#)
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- [62] M Rice, S Wang, **including F Dai**, et al., 2022, *The Astronomical Journal*, 164, 104, [ADS](#)
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- [63] L Rosenthal, H Knutson, **including F Dai**, et al., 2022, *The Astrophysical Journal Supplement Series*, 262, 1, [ADS](#)
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- [64] M MacDougall, E Petigura, **including F Dai**, et al., 2022, *The Astronomical Journal*, 164, 3, [ADS](#)
The TESS-Keck Survey. XIII. An Eccentric Hot Neptune with a Similar-Mass Outer Companion around TOI-1272

- TOI-2196 b: Rare planet in the hot Neptune desert transiting a G-type star*
- [65] S Yee, J Winn, **including F Dai**, et al., 2022, *The Astronomical Journal*, 164, 2, [ADS](#)
The TESS Grand Unified Hot Jupiter Survey. I. Ten TESS Planets
- [66] E Turtelboom, L Weiss, **including F Dai**, et al., 2022, *The Astrophysical Journal Letters*, 933, 1, [ADS](#)
The TESS-Keck Survey. XI. Mass Measurements for Four Transiting Sub-Neptunes Orbiting K Dwarf TOI-1246
- [67] J Christiansen, S Bhure, **including F Dai**, et al., 2022, *The Astronomical Journal*, 163, 6, [ADS](#)
Scaling K2. V. Statistical Validation of 60 New Exoplanets From K2 Campaigns 2-18
- [68] M Johnson, T David, **including F Dai**, et al., 2022, *The Astronomical Journal*, 163, 6, [ADS](#)
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- [69] L Serrano, D Gandolfi, **including F Dai**, et al., 2022, *Nature Astronomy*, 6, 736-750, [ADS](#)
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- [73] A Munazza, J Kirk, **including F Dai**, et al., 2022, *The Astrophysical Journal Letters*, 927, 1, [ADS](#)
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The First Near-infrared Transmission Spectrum of HIP 41378 f, A Low-mass Temperate Jovian World in a Multiplanet System
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- [76] M MacDougall, E Petigura, **including F Dai**, et al., 2021, *The Astronomical Journal*, 162, 6, [ADS](#)
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- [77] V Zandt, E Petigura, **including F Dai**, et al., 2022, *The Astronomical Journal*, 161, 1, [ADS](#)
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- [79] M Rice, S Wang, **including F Dai**, et al., 2021, *The Astronomical Journal*, 162, 5, [ADS](#)
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- [80] X Wang, M Rice, **including F Dai**, et al., 2021, *The Astrophysical Journal Letters*, 926, 2, [ADS](#)
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- [81] N Heidari ; I Boisse, **including F Dai**, et al., 2021, *Astronomy & Astrophysics*, Volume 658, 176, [ADS](#)
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- [82] M Kosiarek, D Berardo, **including F Dai**, et al., 2021, *The Astronomical Journal*, 161, 1, [ADS](#)
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- [83] R Luque; L Serrano, **including F Dai**, et al., 2021, *Astronomy & Astrophysics*, 645, [ADS](#)
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- [84] P Kimberly; S Vissapragada, **including F Dai**, et al., 2021, *The Astrophysical Journal Letters*, 909, 1, L10, [ADS](#)
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- [85] S Wang, JN Winn, **including F Dai**, et al., 2021, *The Astronomical Journal*, 162, 2, [ADS](#)
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- [86] J Lubin, J Van Zandt, **including F Dai**, et al., 2021, *The Astronomical Journal*, 163, 2, [ADS](#)
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- [87] S Vissapragada, G Stefansson, **including F Dai**, et al., 2021, *The Astronomical Journal*, 162, 5, [ADS](#)
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- [88] V Van Eylen, N Astudillo-Defru, **including F Dai**, et al., 2021, *MNRAS*, 507, 2, [ADS](#)
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- [89] A Osborn, D Armstrong, **including F Dai**, et al., 2021, *MNRAS*, 507, 2, [ADS](#)
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- [90] A Chontos, J Murphy, **including F Dai**, et al., 2021, *The Astronomical Journal*, 163, 6, [ADS](#)
The TESS-Keck Survey: Science Goals and Target Selection
- [91] J G Winters, R Cloutier, **including F Dai**, et al., 2021, *The Astronomical Journal*, 163, 4, [ADS](#)
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- [92] J de Leon, J Livingston, **including F Dai**, et al., 2021, *MNRAS*, 508, 1, [ADS](#)
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- [93] M A Limbach, J Vos, **including F Dai**, et al., 2021, *The Astrophysical Journal Letters*, 918, 2, [ADS](#)
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- [94] T Hirano, E Gaidos, **including F Dai**, et al., 2020, *The Astrophysical Journal Letters*, 890, 2, [ADS](#)
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- [95] L Nielsen, D Gandolfi, **including F Dai**, et al., 2020, *MNRAS*, 492, 4, [ADS](#)
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- [96] K Lam, Kristine, J Korth, **including F Dai**, et al., 2020, *The Astronomical Journal*, 159, 3, [ADS](#)
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- [97] J Subjak, R Sharma, **including F Dai**, et al., 2020, *The Astronomical Journal*, 159, 4, [ADS](#)
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- [98] D Hidalgo, E Palle, **including F Dai**, et al., 2020, *Astronomy & Astrophysics*, 636, 13, [ADS](#)
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- [99] Y Chachan, D Jontof-Hutter, **including F Dai**, et al., 2020, *The Astronomical Journal*, 160, 5, [ADS](#)
A Featureless Infrared Transmission Spectrum for the Super-puff Planet Kepler-79d
- [100] I Carleo, D Gandolfi, **including F Dai**, et al., 2020, *The Astronomical Journal*, 160, 3, [ADS](#)
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- [101] M Fridlund, J Livingston, **including F Dai**, et al., 2020, *MNRAS*, 498, 3, [ADS](#)
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- [102] B-O Demory, F Pozuelos, **including F Dai**, et al., 2020, *Astronomy & Astrophysics*, 642, 21, [ADS](#)
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- [104] M Esposito, D Armstrong, ..., **F Dai**, et al., 2019, *Astronomy & Astrophysics*, 623, 11 [ADS](#)
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- [106] E Palle, G Nowak, ..., **F Dai**, et al., 2019, *Astronomy & Astrophysics*, 623, 10, [ADS](#)
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- [107] A Smith, Sz Csizmadia, ..., **F Dai**, et al., 2019, *Acta Astronomica*, 69, 2, [ADS](#)
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- [108] R Luque, G Nowak, ..., **F Dai**, et al., 2019, *Astronomy & Astrophysics*, 623, 9, [ADS](#)
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- [109] S Kamiaka, O Benomar, **including F Dai**, et al., 2019, *The Astronomical Journal*, 157, 4, [ADS](#)
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- [110] M Hjorth, A Justesen, **including F Dai**, et al., 2019, *MNRAS*, 484, 3, [ADS](#)

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- [112] L Bouma, JN Winn, **including F Dai**, et al., 2019, The Astronomical Journal, 157, 6, [ADS](#)
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- [115] S Rappaport, A Vanderburg, **including F Dai**, et al., 2019, MNRAS, 488, 2, [ADS](#)
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- [116] A Santerne, L Malavolta, **including F Dai**, et al., 2019, Submitted to Nature Astronomy, [ADS](#)
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- [118] E Palle, G Nowak, R Luque, D Hidalgo, O Barragan, J Prieto-Arranz, **including F Dai**, et al., 2018, Astronomy & Astrophysics, 623, 41, [ADS](#)
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- [123] D Gandolfi, O Barragn, **including F Dai**, et al., 2017, The Astronomical Journal 154 , 123, [ADS](#)
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- [125] KC Patra, JN Winn, **including F Dai**, 2017, The Astronomical Journal 154 , 4, [ADS](#)
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