

Publications List

Sarah A. Bird

1 Refereed Publications

Liu, Gaochao; Huang, Yang; **Bird, Sarah Ann**; Zhang, Huawei; Wang, Fei; Tian, Haijun, *Probing the Galactic halo with RR lyrae stars - III. The chemical and kinematic properties of the stellar halo*, Monthly Notices of the Royal Astronomical Society, Volume 517, Issue 2, pp. 2787-2800.

Bird, Sarah A.; Xue, Xiang-Xiang; Liu, Chao; Flynn, Chris; Shen, Juntai; Wang, Jie; Yang, Chengqun; Zhai, Meng ; Zhu, Ling; Zhao, Gang; Tian, Hai-Jun, *Milky Way mass with K giants and BHB stars using LAMOST, SDSS/SEGUE, and Gaia: 3D spherical Jeans equation and tracer mass estimator*, Monthly Notices of the Royal Astronomical Society, Volume 516, Issue 1, pp.731-748.

Shen, Yu-Fu; Zhao, Gang; **Bird, Sarah A.**, *An Attempt to Construct an Activity Cycle Catalog with Kepler Long-Cadence Light Curves*, 2022, Universe, Volume 8, Issue 9, p. 488.

Bird, Sarah A.; Xue, Xiang-Xiang; Liu, Chao; Shen, Juntai; Flynn, Chris; Yang, Chengqun; Zhao, Gang; Tian, Hai-Jun, *Constraints on the assembly history of the Milky Way's smooth, diffuse stellar halo from the metallicity-dependent, radially-dominated velocity anisotropy profiles probed with K giants and BHB stars using LAMOST, SDSS/SEGUE, and Gaia*, 2021, The Astrophysical Journal, Volume 919, Issue 1, id.66, 27 pp.

Wang, Fan; Tian, Hai-Jun; Qiu, Dan; Xu, Qi; Fang, Min; Tian, Hao; Li, Di; **Bird, Sarah A.**; Shi, Jianrong; Fu, Xiaoting; Liu, Gaochao; Cui, Sheng; Zhang, Yong, *The Stellar "Snake" I: Whole Structure and Properties*, 2021, Volume 513, Issue 1, pp. 503-515.

Wu, Wenbo; Zhao, Gang; Xue, Xiang-Xiang; **Bird, Sarah A.**; Yang, Chengqun, *Contribution of Gaia Sausage to the Galactic stellar halo revealed by K giants and blue horizontal branch stars from the Large Sky Area Multi-Object Fiber Spectroscopic Telescope, Sloan Digital Sky Survey, and Gaia*, 2022, The Astrophysical Journal, Volume 924, Issue 1, id.23, 23 pp.

Erkal, Denis; Deason, Alis J.; Belokurov, Vasily; Xue, Xiang-Xiang; Koposov, Sergey E.; **Bird, Sarah A.**; Liu, Chao; Simion, Iulia T.; Yang, Chengqun; Zhang, Lan; Zhao, Gang, *Detection of the LMC-induced sloshing of the Galactic halo*, 2021, Monthly Notices of the Royal Astronomical Society, Vol. 506, Issue 2, pp. 2677-2684.

Webb, S.; Flynn, C.; Cooke, J.; Zhang, J.; Mahabal, A.; Abbott, T. M. C.; Allen, R.; Andreoni, I.; **Bird, S. A.**; Goode, S.; Lochner, M.; Pritchard, T., *The Deeper, Wider, Faster programme: exploring stellar flare activity with deep, fast cadenced DECam imaging via machine learning*, 2021, Monthly Notices of the Royal Astronomical Society, Vol. 506, Issue 2, pp. 2089-2103.

Ye, Xianhao; Zhao, Jingkun; Liu, Jiaming; **Bird, Sarah A.**; Liu, Chao; Liang, Xilong; Zhang, Jiajun; Zhao, Gang, *Diagnosing Open Cluster Stock 2: Member Candidates and Mass Distribution with Gaia DR2 and LAMOST*, 2021, The Astronomical Journal, Vol. 161, Issue 1, id. 8, 7 pp.

Ablimit, I., Zhao, G., Flynn, C., and **Bird, S. A.**, *The rotation curve, mass distribution and dark matter content of the Milky Way from Classical Cepheids*, 2020, The Astrophysical Journal Letters, Vol. 895, Issue 1, L12.

Bird, S. A., Xue, X.-X., Chao, L., Shen, J., Flynn, C., and Yang, C., *Anisotropy of the Milky Way's stellar halo using K giants from LAMOST and Gaia*, 2019, The Astronomical Journal, Vol. 157, Issue 3, p. 104.

Bird, S. A. and Flynn, C., *Fading Features Found in the Kinematics of the Far-Reaching Milky Way Stellar Halo*, 2015, Monthly Notices of the Royal Astronomical Society, Vol. 452, p. 2675.

Bird, S., Flynn, C., Harris, W. E., and Valtonen, M., *Red giants in the outer halo of the elliptical galaxy NGC 5128 / Centaurus A*, 2015, Astronomy and Astrophysics, Vol. 575, id. A72, 10 pp.

Bird, S. A., *Dynamical and Chemical Structure of Galactic Halos*, 2014, Annales Universitatis Turkuensis A I 495, ISBN 9789512958931.

Bird, S., Harris, W. E., Blakeslee, J. P., and Flynn, C., *The Inner Halo of M 87: A First Direct View of the Red-Giant Population*, 2010, Astronomy and Astrophysics, Vol. 524, p. A71.

Kiminki, D. C., Kobulnicky, H. A., Gilbert, I., **Bird, S.**, and Chunev, G., *Five More Massive Binaries in the Cygnus OB2 Association*, 2009, The Astronomical Journal, Vol. 137, Issue 6, pp. 4608-4620.

2 NonRefereed Publications

Bird, S. A., Xue, X.-X., Chao, L., Shen, J., Flynn, C., Yang, C., *Galactic mass and anisotropy profile with halo K-giant and blue horizontal branch stars from LAMOST/SDSS and Gaia*, 2020, Galactic Dynamics in the Era of Large Surveys, IAU Symposium, Vol. 353, pp. 91-95.

Bird, S. A., *Galactic Mass and Anisotropy Profile with Halo K-Giant and Blue Horizontal Branch Stars from LAMOST/SDSS and Gaia*, 2019, *Light in the Suburbs: Structure and Chemodynamics of Galaxy Halos*, p. 21.

Bird, S. A., *Halo K-Giant Stars from LAMOST: Kinematics and Galactic Mass Estimate*, 2017, *Formation and Evolution of Galaxy Outskirts*, IAU Symposium, Vol. 321, p. 48.

Bird, S. A., *Resolved Stellar Halos of M87 and NGC 5128: Metallicities from the Red-Giant Branch*, 2016, *The General Assembly of Galaxy Halos: Structure, Origin and Evolution*, IAU Symposium, Vol. 317, pp. 276-277.

Bird, S. A., Flynn, C., Harris, W. E., Flynn, C., Blakeslee, J. P., and Valtonen, M., *Resolved Stellar Halos of M87 and NGC 5128*, 2015, IAU General Assembly, Vol. 22, p. 54524.

Bird, S., Flynn, C., Harris, W. E., and Valtonen, M., *Centaurus A: Stellar Metallicity Transition in the Halo*, 2013, American Astronomical Society, AAS Meeting 221, p. 303.01.

Boles, T., Smartt, S. J., Valenti, S., Mattila, S., Kankare, E., Katajainen, S., **Bird, S. A.**, and Pursimo, T., *Supernova 2010ik in UGC 112*, 2010, *Central Bureau Electronic Telegrams*, 2479, 1. Edited by Green, D. W. E.

Kiminki, D. C., Gilbert, I., **Bird, S.**, Chunev, G., Kobulnicky, H. A., *Four More Massive Binaries in the Cygnus OB2 Association*, 2009, *Bulletin of the American Astronomical Society*, Vol. 41, p. 300.

Bird, Sarah, Chunev, G., Kobulnicky, H., Uzpen, B., *Optical Spectroscopy of GLIMPSE Stars with 8 Micron Infrared Excesses*, 2007, *Bulletin of the American Astronomical Society*, Vol. 39, p. 813.