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Publications

Core Author

Pippin: A pipeline for supernova cosmology
Hinton, **Samuel** and Dillon Brout Journal of Open Source Software *5.47 (2020) p. 2122. The Open Journal*

BARRY and the BAO model comparison
Hinton, **Samuel R.**, Cullan Howlett, and Tamara M. Davis MNRAS *493.3 (Apr. 2020) pp. 4078–4093*

Can redshift errors bias measurements of the Hubble Constant?
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Steve: A Hierarchical Bayesian Model for Supernova Cosmology
Hinton, **S. R.** et al. The Astrophysical Journal *876.1 (Apr. 2019) p. 15. American Astronomical Society*

Measuring the 2D baryon acoustic oscillation signal of galaxies in WiggleZ: cosmological constraints
Hinton, **S. R.** et al. MNRAS *464 (Feb. 2017) pp. 4807–4822*

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Marz: Manual and automatic redshifting software
Hinton, **S.R.** et al. Astronomy and Computing *15 (2016) pp. 61–71*

Science Contributions

OzDES multi-object fibre spectroscopy for the Dark Energy Survey: Results and second data release
Lidman, C. et al. MNRAS *(May 2020)*

Supernova Siblings: Assessing the Consistency of Properties of Type Ia Supernovae that Share the Same Parent Galaxies
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First Cosmology Results using Supernovae Ia from the Dark Energy Survey: Survey Overview, Performance, and Supernova Spectroscopy
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First cosmology results using type Ia supernovae from the Dark Energy Survey: the effect of host galaxy properties on supernova luminosity
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The host galaxies of 106 rapidly evolving transients discovered by the Dark Energy Survey
Wiseman, P. et al. MNRAS *498.2 (Oct. 2020) pp. 2575–2593*

First Cosmology Results using Type Ia Supernovae from the Dark Energy Survey: Constraints on Cosmological Parameters
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First Cosmology Results Using Type Ia Supernovae from the Dark Energy Survey: Photometric Pipeline and Light-curve Data Release
Brout, D. et al. ApJ *874.1, 106 (Mar. 2019) p. 106*

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OzDES multifibre spectroscopy for the Dark Energy Survey: 3-yr results and first data release
Childress, M. J. et al. Monthly Notices of the Royal Astronomical Society *472 (Nov. 2017) pp. 273–288*

OzDES multifibre spectroscopy for the Dark Energy Survey: first-year operation and results
Yuan, F. et al. Monthly Notices of the Royal Astronomical Society *452 (Sept. 2015) pp. 3047–3063*

Infrastructure / Data Contributions

The first Hubble diagram and cosmological constraints using superluminous supernovae
Inserra, C. et al. MNRAS *(Apr. 2021)*

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The impact of spectroscopic incompleteness in direct calibration of redshift distributions for weak lensing surveys
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The WiggleZ Dark Energy Survey: final data release and the metallicity of UV-luminous galaxies
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A Study of Quasar Selection in the Supernova Fields of the Dark Energy Survey
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