

# Carlos S Frenk

## List of Publications by Year in descending order

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160  
papers

44,369  
citations

12303

69  
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160  
docs citations

160  
times ranked

11714  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Universal Density Profile from Hierarchical Clustering. <i>Astrophysical Journal</i> , 1997, 490, 493-508.	1.6	7,846
2	The Structure of Cold Dark Matter Halos. <i>Astrophysical Journal</i> , 1996, 462, 563.	1.6	6,326
3	Simulations of the formation, evolution and clustering of galaxies and quasars. <i>Nature</i> , 2005, 435, 629-636.	13.7	3,801
4	The EAGLE project: simulating the evolution and assembly of galaxies and their environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 521-554.	1.6	2,549
5	The 2dF Galaxy Redshift Survey: spectra and redshifts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 328, 1039-1063.	1.6	1,833
6	Galaxy formation through hierarchical clustering. <i>Astrophysical Journal</i> , 1991, 379, 52.	1.6	1,788
7	The 2dF Galaxy Redshift Survey: power-spectrum analysis of the final data set and cosmological implications. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 362, 505-534.	1.6	1,599
8	Hierarchical galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 319, 168-204.	1.6	1,523
9	The EAGLE simulations of galaxy formation: calibration of subgrid physics and model variations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 1937-1961.	1.6	1,038
10	Cluster evolution as a diagnostic for $\Lambda$ CDM. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 282, 263-280.	1.6	945
11	The baryon content of galaxy clusters: a challenge to cosmological orthodoxy. <i>Nature</i> , 1993, 366, 429-433.	13.7	745
12	The diversity and similarity of simulated cold dark matter haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 21-34.	1.6	639
13	The 2dF Galaxy Redshift Survey: the environmental dependence of galaxy star formation rates near clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 334, 673-683.	1.6	622
14	A measurement of the cosmological mass density from clustering in the 2dF Galaxy Redshift Survey. <i>Nature</i> , 2001, 410, 169-173.	13.7	545
15	The large-scale structure of the Universe. <i>Nature</i> , 2006, 440, 1137-1144.	13.7	525
16	The cores of dwarf galaxy haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 283, L72-L78.	1.6	476
17	The APOSTLE simulations: solutions to the Local Group's cosmic puzzles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 1931-1943.	1.6	453
18	The formation of dark halos in a universe dominated by cold dark matter. <i>Astrophysical Journal</i> , 1988, 327, 507.	1.6	444

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19	The redshift dependence of the structure of massive $\Lambda$ cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2008, 387, 536-544.	1.6	408
20	The properties of warm dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2014, 439, 300-317.	1.6	360
21	The haloes of bright satellite galaxies in a warm dark matter universe. Monthly Notices of the Royal Astronomical Society, 2012, 420, 2318-2324.	1.6	329
22	The unexpected diversity of dwarf galaxy rotation curves. Monthly Notices of the Royal Astronomical Society, 2015, 452, 3650-3665.	1.6	302
23	Baryon effects on the internal structure of $\Lambda$ CDM haloes in the EAGLE simulations. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1247-1267.	1.6	302
24	The Auriga Project: the properties and formation mechanisms of disc galaxies across cosmic time. Monthly Notices of the Royal Astronomical Society, 0, , stx071.	1.6	293
25	A unified multiwavelength model of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3854-3911.	1.6	290
26	Evolution of the cosmic web. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2923-2973.	1.6	248
27	The mass-concentration-redshift relation of cold and warm dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2016, 460, 1214-1232.	1.6	227
28	Galaxies and intergalactic medium interaction calculation I. Galaxy formation as a function of large-scale environment. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1773-1794.	1.6	216
29	The mass-concentration-redshift relation of cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2014, 441, 378-388.	1.6	204
30	Phase-space structure in the local dark matter distribution and its signature in direct detection experiments. Monthly Notices of the Royal Astronomical Society, 2009, 395, 797-811.	1.6	202
31	The density field of the local Universe. Nature, 1991, 349, 32-38.	13.7	198
32	The milky way total mass profile as inferred from Gaia DR2. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4291-4313.	1.6	188
33	The 2dF Galaxy Redshift Survey: galaxy clustering per spectral type. Monthly Notices of the Royal Astronomical Society, 2003, 344, 847-856.	1.6	170
34	More Satellites of Spiral Galaxies. Astrophysical Journal, 1997, 478, 39-48.	1.6	169
35	The missing massive satellites of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2715-2721.	1.6	162
36	The apostle project: Local Group kinematic mass constraints and simulation candidate selection. Monthly Notices of the Royal Astronomical Society, 2016, 457, 844-856.	1.6	154

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37	The 2dF Galaxy Redshift Survey: the luminosity function of cluster galaxies. Monthly Notices of the Royal Astronomical Society, 2003, 342, 725-737.	1.6	151
38	THE UNORTHODOX ORBITS OF SUBSTRUCTURE HALOS. Astrophysical Journal, 2009, 692, 931-941.	1.6	145
39	Measuring $\Omega_0$ using cluster evolution. Monthly Notices of the Royal Astronomical Society, 1998, 298, 1145-1158.	1.6	144
40	Galaxy And Mass Assembly (GAMA): Panchromatic Data Release (far-UV to far-IR) and the low- $z$ energy budget. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3911-3942.	1.6	140
41	The properties of satellite galaxies in simulations of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2010, 406, 208-222.	1.6	137
42	Dark matter halo merger histories beyond cold dark matter $\Lambda$ CDM. Methods and application to warm dark matter. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1774-1789.	1.6	136
43	Quenching and ram pressure stripping of simulated Milky Way satellite galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 478, 548-567.	1.6	135
44	The shape of dark matter haloes in the Aquarius simulations: evolution and memory. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1377-1391.	1.6	132
45	The abundance of (not just) dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1366-1382.	1.6	130
46	Satellites of spiral galaxies. Astrophysical Journal, 1993, 405, 464.	1.6	124
47	Constraining the warm dark matter particle mass with Milky Way satellites. Monthly Notices of the Royal Astronomical Society, 2014, 442, 2487-2495.	1.6	123
48	The chosen few: the low-mass haloes that host faint galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 456, 85-97.	1.6	117
49	The Auriga stellar haloes: connecting stellar population properties with accretion and merging history. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2589-2616.	1.6	113
50	Galaxy distribution in a cold dark matter universe. Nature, 1987, 330, 451-453.	13.7	109
51	Formation of <i>in situ</i> stellar haloes in Milky Way-mass galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 454, 3185-3199.	1.6	109
52	The Copernicus Complexio: statistical properties of warm dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2016, 455, 318-333.	1.6	102
53	The mass of the Milky Way from satellite dynamics. Monthly Notices of the Royal Astronomical Society, 2019, 484, 5453-5467.	1.6	102
54	Shaken and stirred: the Milky Way's dark substructures. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4383-4400.	1.6	99



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73	The 2dF Galaxy Redshift Survey: stochastic relative biasing between galaxy populations. Monthly Notices of the Royal Astronomical Society, 2005, 356, 247-269.	1.6	68
74	The Cosmic Ballet II: spin alignment of galaxies and haloes with large-scale filaments in the EAGLE simulation. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1607-1625.	1.6	67
75	Clues to the "Magellanic Galaxy" from cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2011, 418, 648-658.	1.6	65
76	Clear and Measurable Signature of Modified Gravity in the Galaxy Velocity Field. Physical Review Letters, 2014, 112, 221102.	2.9	65
77	Momentum transfer across shear flows in smoothed particle hydrodynamic simulations of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2003, 345, 429-446.	1.6	64
78	The 2dF Galaxy Redshift Survey: Wiener reconstruction of the cosmic web. Monthly Notices of the Royal Astronomical Society, 2004, 352, 939-960.	1.6	64
79	Orbital parameters of infalling satellite haloes in the hierarchical $\Lambda$ CDM model. Monthly Notices of the Royal Astronomical Society, 2015, 448, 1674-1686.	1.6	64
80	No cores in dark matter-dominated dwarf galaxies with bursty star formation histories. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4790-4804.	1.6	62
81	The density and pseudo-phase-space density profiles of cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2011, 415, 3895-3902.	1.6	59
82	On the effects of line-of-sight structures on lensing flux-ratio anomalies in a $\Lambda$ CDM universe. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2553-2567.	1.6	59
83	Constraints on the identity of the dark matter from strong gravitational lenses. Monthly Notices of the Royal Astronomical Society, 2016, 460, 363-372.	1.6	59
84	Secondary infall and the pseudo-phase-space density profiles of cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2010, 406, 137-146.	1.6	58
85	Constraining extended gamma-ray emission from galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1651-1665.	1.6	58
86	hbt+: an improved code for finding subhaloes and building merger trees in cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2018, 474, 604-617.	1.6	58
87	The first generation of star-forming haloes. Monthly Notices of the Royal Astronomical Society, 2005, 363, 393-404.	1.6	56
88	Ultra-diffuse galaxies in the Auriga simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5182-5195.	1.6	55
89	Knowing the unknowns: uncertainties in simple estimators of galactic dynamical masses. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2335-2360.	1.6	54
90	Galaxy groups in the 2dF Galaxy Redshift Survey: the number density of groups. Monthly Notices of the Royal Astronomical Society, 2006, 370, 1147-1158.	1.6	52

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91	The detailed structure and the onset of galaxy formation in low-mass gaseous dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4887-4900.	1.6	52
92	Projection effects in the strong lensing study of subhaloes. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1426-1432.	1.6	51
93	The multiplicity and anisotropy of galactic satellite accretion. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1796-1810.	1.6	51
94	The satellite luminosity functions of galaxies in Sloan Digital Sky Survey. Monthly Notices of the Royal Astronomical Society, 2011, 417, 370-381.	1.6	49
95	Lessons from the Auriga discs: the hunt for the Milky Way's ex situ disc is not yet over. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3722-3733.	1.6	46
96	Predictions for deep galaxy surveys with JWST from $\Lambda$ CDM. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2352-2372.	1.6	46
97	The properties of $\Lambda$ CDM haloes in the Local Group. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3913-3926.	1.6	44
98	Aurigaia: mock Gaia DR2 stellar catalogues from the auriga cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1726-1743.	1.6	44
99	Galaxy and Mass Assembly: FUV, NLIV, ugrizYJHK Petrosian, Kron and S $\ddot{a}$ rsic photometry. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	43
100	The integrated Sachs-Wolfe effect in $f(R)$ gravity. Monthly Notices of the Royal Astronomical Society, 2014, 439, 2978-2989.	1.6	43
101	Size matters: abundance matching, galaxy sizes, and the Tully-Fisher relation in EAGLE. Monthly Notices of the Royal Astronomical Society, 2017, 464, 4736-4746.	1.6	43
102	Comparing galaxy formation in semi-analytic models and hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2018, 474, 492-521.	1.6	42
103	Determining the full satellite population of a Milky Way-mass halo in a highly resolved cosmological hydrodynamic simulation. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4953-4967.	1.6	42
104	Mock 2dF and SDSS galaxy redshift surveys. Monthly Notices of the Royal Astronomical Society, 1998, 300, 945-966.	1.6	42
105	Addressing the too big to fail problem with baryon physics and sterile neutrino dark matter. Monthly Notices of the Royal Astronomical Society, 2017, 468, 2836-2849.	1.6	41
106	A tale of two populations: surviving and destroyed dwarf galaxies and the build-up of the Milky Way's stellar halo. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4459-4471.	1.6	40
107	Evolution of galactic planes of satellites in the eagle simulation. Monthly Notices of the Royal Astronomical Society, 2019, 488, 1166-1179.	1.6	36
108	PyAutoLens: Open-Source Strong Gravitational Lensing. Journal of Open Source Software, 2021, 6, 2825.	2.0	34

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109	Creating mock catalogues of stellar haloes from cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2274-2290.	1.6	32
110	The star formation histories of dwarf galaxies in Local Group cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5423-5437.	1.6	31
111	The chemo-dynamical groups of Galactic globular clusters. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4107-4129.	1.6	28
112	The aftermath of the Great Collision between our Galaxy and the Large Magellanic Cloud. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2185-2196.	1.6	27
113	Spatial and luminosity distributions of galactic satellites. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1838-1848.	1.6	26
114	The innate origin of radial and vertical gradients in a simulated galaxy disc. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3648-3660.	1.6	26
115	The distinct stellar metallicity populations of simulated Local Group dwarfs. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2312-2331.	1.6	22
116	Halo concentration strengthens dark matter constraints in galaxy-galaxy strong lensing analyses. Monthly Notices of the Royal Astronomical Society, 2022, 510, 2464-2479.	1.6	22
117	The evolution of the UV-to-mm extragalactic background light: evidence for a top-heavy initial mass function?. Monthly Notices of the Royal Astronomical Society, 2019, 487, 3082-3101.	1.6	20
118	An optimal non-linear method for simulating relic neutrinos. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2614-2631.	1.6	20
119	Cosmic Ballet III: Halo spin evolution in the cosmic web. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2280-2299.	1.6	19
120	Satellites around Milky Way Analogs: Tension in the Number and Fraction of Quiescent Satellites Seen in Observations versus Simulations. Astrophysical Journal Letters, 2021, 916, L19.	3.0	19
121	A forward-modelling method to infer the dark matter particle mass from strong gravitational lenses. Monthly Notices of the Royal Astronomical Society, 2022, 511, 3046-3062.	1.6	19
122	The galaxy population in cold and warm dark matter cosmologies. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4579-4591.	1.6	18
123	The missing dwarf galaxies of the Local Group. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2596-2605.	1.6	18
124	Dwarf stellar haloes: a powerful probe of small-scale galaxy formation and the nature of dark matter. Monthly Notices of the Royal Astronomical Society, 2022, 511, 4044-4059.	1.6	17
125	Extending the halo mass resolution of N-body simulations. Monthly Notices of the Royal Astronomical Society, 2014, 442, 3256-3265.	1.6	16
126	The metal enrichment of passive galaxies in cosmological simulations of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2017, 464, 4866-4874.	1.6	16



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127	Origins of carbon-enhanced metal-poor stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 984-995.	1.6	16
128	The spatial distribution of Milky Way satellites, gaps in streams, and the nature of dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 4826-4839.	1.6	16
129	The twisted dark matter halo of the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 6033-6048.	1.6	16
130	Constraining the inner density slope of massive galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 4717-4733.	1.6	15
131	Predictions for the detection of tidal streams with Gaia using great-circle methods. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 721-743.	1.6	14
132	The origin of X-ray coronae around simulated disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 2934-2951.	1.6	13
133	A Tidally Induced Global Corrugation Pattern in an External Disk Galaxy Similar to the Milky Way. <i>Astrophysical Journal</i> , 2021, 908, 27.	1.6	13
134	The survival of globular clusters in a cuspy Fornax. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2339-2353.	1.6	13
135	Comparing semi-analytic particle tagging and hydrodynamical simulations of the Milky Way's stellar halo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 1691-1712.	1.6	12
136	A high-resolution cosmological simulation of a strong gravitational lens. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4657-4668.	1.6	12
137	Can tides explain the low dark matter density in Fornax?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 510, 2186-2205.	1.6	12
138	Apostleâ€œAuriga: effects of different subgrid models on the baryon cycle around Milky Way-mass galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 3113-3138.	1.6	12
139	A new gas cooling model for semi-analytic galaxy formation models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 543-569.	1.6	11
140	Modelling Dust in Galactic SEDs: Application to Semi-Analytical Galaxy Formation Models. <i>Astrophysics and Space Science</i> , 2001, 276, 1073-1078.	0.5	10
141	Galaxyâ€œgalaxy strong lens perturbations: line-of-sight haloes versus lens subhaloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 5862-5873.	1.6	10
142	Local group star formation in warm and self-interacting dark matter cosmologies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 702-717.	1.6	9
143	Smoothed particle radiation hydrodynamics: two-moment method with local Eddington tensor closure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 5784-5814.	1.6	9
144	Observing the Stellar Halo of Andromeda in Cosmological Simulations: The AURIGA2PANDAS Pipeline. <i>Astrophysical Journal</i> , 2021, 910, 92.	1.6	6

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145	Linking the brightest stellar streams with the accretion history of Milky Way like galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4898-4911.	1.6	6
146	A comparison between semi-analytical gas cooling models and cosmological hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1691-1717.	1.6	5
147	Baryon-driven decontraction in Milky Way-mass haloes. Monthly Notices of the Royal Astronomical Society, 2022, 511, 3910-3921.	1.6	5
148	The effects of self-interacting dark matter on the stripping of galaxies that fall into clusters. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5927-5935.	1.6	5
149	The spatial distribution of satellites in galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2022, 514, 390-402.	1.6	4
150	Understanding the cosmic web. Proceedings of the International Astronomical Union, 2014, 11, 47-56.	0.0	3
151	The chemical imprint of the bursty nature of Milky Way's progenitors. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 482, L145-L149.	1.2	3
152	NEXUS OF THE COSMIC WEB. , 2015, , .		3
153	Is cold dark matter really dead?. Nature, 1991, 351, 22-22.	13.7	2
154	Coming of age of the standard model. Nature Astronomy, 2020, 4, 122-123.	4.2	2
155	The evolution of disc galaxies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2000, 358, 2093-2107.	1.6	1
156	How well is angular momentum accretion modelled in semi-analytic galaxy formation models?. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4241-4261.	1.6	1
157	Motions in the local Universe?. Nature, 1987, 326, 442-443.	13.7	0
158	N-body Simulations of Galaxy Formation. Symposium - International Astronomical Union, 1988, 130, 259-271.	0.1	0
159	Chemical enrichment of ICM in a hierarchical galaxy formation model including SNe Ia. Proceedings of the International Astronomical Union, 2004, 2004, .	0.0	0
160	Finding the stars that reionized the Universe. Proceedings of the International Astronomical Union, 2017, 12, 253-254.	0.0	0