

2020年3月 第3週 新着論文サーベイ

3月16日(月曜日)

[1] [arxiv:2003.06407](#)

Title: "Systematic Phase Curve Study of Known Transiting Systems from Year 1 of the TESS Mission"

Author: Ian Wong, Avi Shporer, Tansu Daylan, Björn Benneke, Tara Fetherolf, Stephen R. Kane, George R. Ricker, Roland Vanderspek, David W. Latham, Joshua N. Winn, John M. Jenkins, Patricia T. Boyd, Ana Glidden, Robert F. Goeke, Lizhou Sha, Eric B. Ting, Daniel Yahalomi

Comments: 25 pages, 8 figures, submitted to AJ

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[観測/TESS]

TESSのyear 1のターゲットのうち、惑星質量または褐色矮星の伴星を持つ系の光度曲線を解析した。結果、恒星直下点と大気最大の光度地点のズレや、変形のシグナルを見つけた。

[2] [arxiv:2003.06306](#)

Title: "Earth's polar night boundary layer as an analogue for dark side inversions on synchronously rotating terrestrial exoplanets"

Author: Manoj Joshi, Andrew Elvidge, Robin Wordsworth, Denis Sergeev

Comments: Accepted by Astrophysical Journal Letters; 14 pages, 3 figures

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[理論/実験/大気温度逆転]

同期回転する惑星のハビタビリティでは夜面との教会での大気逆転の強度が重要である。そのアナログとして、地球の南極とカナダ極域でそれぞれ海が無い場合とある場合について極夜の観測を行った。地球では乱流拡散の影響で温度逆転は30K足らずだった。Proxima Centauri bでのシミュレーションと比較していろいろ議論した。

[3] [arxiv:2003.06034](#)

Title: "Ammonium salts are a reservoir of nitrogen on a cometary nucleus and possibly on some asteroids"

Author: O. Poch, I. Istiqomah, E. Quirico, P. Beck, B. Schmitt, P. Theulé, A. Faure, P. Hily-Blant, L. Bonal, A. Raponi, M. Ciarniello, B. Rousseau, S. Potin, O. Brissaud, L. Flandinet, G. Filacchione, A. Pommerol, N. Thomas, D. Kappel, V. Mennella, L. Moroz, V. Vinogradoff, G. Arnold, S. Erard, D. Bockelée-Morvan, C. Leyrat, F. Capaccioni, M. C. De Sanctis,

A. Longobardo, F. Mancarella, E. Palomba, F. Tosi

Comments: Main manuscript and Supplementary material document, Accepted for publication in Science on February 14, 2020

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[実験/窒素]

彗星の N/C 比は太陽よりも低いため、彗星のどこかが N のリザーバーになっているはず。67P 彗星の表面全体から 3.2 μ m の広い反射スペクトルを示すことが知られている。今回、このスペクトルは彗星表面のダストとアンモニア塩が混合したものの吸収線に対応していることを実験で示した。

[4] [arxiv:2003.05943](#)

Title: ”Strong biases in retrieved atmospheric composition caused by strong day-night chemical heterogeneities”

Author: William Pluriel, Tiziano Zingales, Jérémy Leconte, Vivien Parmentier

Comments: 13 pages, 10 figures, accepted on March 12 2020 in Astronomy & Astrophysics, section 10. Planets and planetary systems

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[理論/大気組成]

透過分光がなされている系外惑星の多くは、中心性に十分近いいため昼半球と夜半球の温度差が大きい。そのため両半球で化学組成が変化する可能性があるが、大気組成モデルの多くは 1 次元モデルであるため、この差を反映することができない。昼半球と夜半球での化学組成の違いによって従来のモデルを用いた観測結果にどのようなバイアスがかかるのか調べた。結果、温度の低い夜半球の影響で H₂O フィーチャーが過小評価され、温度の高い昼半球では反対に分子量の小さい分子を過剰評価されることがわかった。これにより CO/H₂O 比が 1-3 桁過剰評価されるので、C/O 比の解析などの際に注意が必要。

[5] [arxiv:2003.06163](#)

Title: ”High-resolution spectroscopy of flares and CMES on AD Leo*”

Author: Priscilla Muheki, Eike W. Guenther, Tom Mutabazi, Edward Jurua

Comments: 10 pages, 7 figures, Accepted in A & A

Subjects: Solar and Stellar Astrophysics (astro-ph.SR); Earth and Planetary Astrophysics (astro-ph.EP)

[観測/]

M 型星 AD Leo の CME を高分解分光観測した。

[6] [arxiv:2003.06020](#)

Title: ”Extreme Space Weather Events Recorded in History”

Author: Hisashi Hayakawa, Yusuke Ebihara

Comments: 19 pages, 8 figures, written in Japanese, a Japanese article for a part of the Solar-Terrestrial Environment Prediction, in press

Subjects: History and Philosophy of Physics (physics.hist-ph); Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/宇宙天気]

歴史文献から過去の宇宙天気イベントの痕跡 (オーロラとか黒点のスケッチなど) を探し、それに基づいて過去の宇宙

3月17日(火曜日)

[1] [arXiv:2003.06799](#)

Title: "Electrical and seismological structure of the martian mantle and the detectability of impact-generated anomalies"

Author: Thomas Ruedas, Doris Breuer

Comments: 5 figures

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[理論/火星のマントル]

火星のマントル中の電気伝導率分布について、マントルの対流モデルを使って調べた。巨大クレーターを作るような隕石衝突の影響も考慮した。衝突によって地下の電気伝導率が特徴的な分布となった。この分布は電磁探査によって検出できそう。

[2] [arXiv:2003.06680](#)

Title: "Europa's Hemispheric Color Dichotomy as a Constraint on Non-synchronous Rotation"

Author: Ethan Burnett, Paul Hayne

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[観測/エウロパの非同期回転]

エウロパ表面の反射率は leading hemisphere と trailing hemisphere で大きく異なる。trailing hemisphere には木星磁気圏で加速された粒子が集中的に降り注いで変色が起こっていると考えられるが、このためにはエウロパ表面が十分遅く回転している必要がある。この制限をもとにエウロパの非同期回転の周期を見積もった。

[3] [arXiv:2003.06603](#)

Title: "The pivot energy of Solar Energetic Particles Affecting the Martian surface radiation environment"

Author: Jingnan Guo, Robert F. Wimmer-Schweingruber, Yuming Wang, Manuel Grande, Daniel Matthiae, Cary Zeitlin, Bent Ehresmann, Donald M. Hassler

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); High Energy Astrophysical Phenomena (astro-ph.HE)

[理論/宇宙天気]

火星表面で有人探査を行う場合、太陽からの高エネルギー粒子が危険である。粒子輸送のシミュレーションを行ったところ、火星の周回軌道上で高エネルギー粒子の量をモニターしておくことで火星表面に達する粒子の量を十分推定できそう。

[4] [arXiv:2003.06577](#)

Title: "Rotational Disruption of Nonspherical Cometary Dust Particles by Radiative Torques"

Author: Joonas Herranen

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[理論/非球形のダスト]

彗星のダストのような非球形の粒子の集まりに対する輻射トルクの影響をシミュレーションした。ダストが回転し、一方向に整列する様子が見られた。実際の彗星でも偏光が観測されており、今回のシミュレーションの結果と整合する。

[5] [arXiv:2003.06522](#)

Title: "Planet-induced Vortices with Dust Coagulation in Protoplanetary Disks"

Author: Ya-Ping Li, Hui Li, Shengtai Li, Tilman Birnstiel, Joanna Drazkowska, Sebastian Stammer

Comments: Accepted for publication in ApJL, 10 pages, 5 figures

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論]

粘性の低い円盤中に生じた渦に対して、円盤中のダストの凝集と分裂がどのように影響するか調べた。渦の中では特に凝集が起こりやすく、凝集したダストはガスの流れに影響して、渦の寿命を強く制限した。典型的な寿命は1000周であった。

[6] [arXiv:2003.06519](#)

Title: "Hubble Space Telescope Search for Activity in High Perihelion Objects"

Author: Jing Li, David Jewitt, Max Mutchler, Jessica Agarwal, Harold Weaver

Comments: 30 pages, 11 figures, 4 tables. Accepted by AJ

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[観測/HPOの活動の原因]

木星よりも遠くを周る天体 (High Perihelion Objects; HPO) の活動の原因として、(1)CO や CO₂ の昇華、(2) 非晶質の氷の結晶化の2通りが考えられる。(1)は太陽から30 AU程度でも起こりうるのに対し、(2)はより高温を必要とし、10 AU以遠での活動は起こらないはず。今回HSTで53個のHPOを観測したところ、15 AU以遠で活動の証拠は見られなかった。したがって(2)のほうが整合性が高い。

[7] [arXiv:2003.06424](#)

Title: "HST/STIS transmission spectrum of the ultra-hot Jupiter WASP-76 b confirms the presence of sodium in its atmosphere"

Author: C. von Essen, M. Mallonn, S. Hermansen, M. C. Nixon, N. Madhusudhan, H. Kjeldsen, G. Tautvaišienė

Comments: 14 pages, 10 figures

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[観測/透過分光]

HST の分光器 STIS で ultra-hot Jupiter WASP-76b の透過分光を行い、ナトリウムの吸収線を 2.9-sigma で検出した。

[8] [arxiv:2003.07290](#)

Title: "The White Dwarf Binary Pathways Survey III: contamination from hierarchical triples containing a white dwarf"

Author: F. Lagos, M.R. Schreiber, S.G. Parsons, A. Zurlo, D. Mesa, B.T. Gänsicke, R. Brahm, C. Caceres, H. Canovas, M-S. Hernandez, A. Jordan, D. Koester, L. Schmidtobreick, C. Tappert, M. Zorotovic

Comments: accepted for publication in MNRAS

Subjects: Solar and Stellar Astrophysics (astro-ph.SR); Earth and Planetary Astrophysics (astro-ph.EP)

[理論/観測/実験 etc....]

白色矮星と主系列星からなる binary の観測について。

[9] [arxiv:2003.07067](#)

Title: "Disk structure around the Class I protostar L1489 IRS revealed by ALMA: a warped disk system"

Author: Jinshi Sai, Nagayoshi Ohashi, Kazuya Saigo, Tomoaki Matsumoto, Yusuke Aso, Shigehisa Takakuwa, Yuri Aikawa, Ippei Kurose, Hsi-Wei Yen, Kohji Tomisaka, Kengo Tomida, Masahiro N. Machida

Comments: 26 pages, 18 figures, accepted by ApJ

Subjects: Solar and Stellar Astrophysics (astro-ph.SR); Earth and Planetary Astrophysics (astro-ph.EP); Astrophysics of Galaxies (astro-ph.GA)

[観測/warped disk]

原始星 L1489IRS を ALMA で観測した。半径 600 AU 程度のケプラー回転する円盤が見られた。半径 200-300 AU の位置で放射が弱く、その内外で自転軸の方向が 15 deg ほど違っていた。その他の特徴も含めて warped disk model で説明できた。

[10] [arxiv:2003.06870](#)

Title: "HD 145263: Spectral Observations of Silica Debris Disk Formation via Extreme Space Weathering?"

Author: C.M. Lisse, H.Y.A. Meng, M.L. Sitko, A. Morlok, B.C. Johnson, A.P. Jackson, R.J. Vervack Jr., C.H. Chen, S.J. Wolk, M.D. Lucas, M. Marengo, D.T. Britt

Comments: 41 Pages, 5 Figures, 5 Tables, Accepted for publication in the Astrophysical Journal

Subjects: Solar and Stellar Astrophysics (astro-ph.SR); Earth and Planetary Astrophysics (astro-ph.EP)

[理論/観測/実験 etc....]

HD145263 周りの円盤の組成が通常と異なる理由について、主星の巨大フレアが原因とする従来の説を否定し、別

の説明を行った。

[11] [arxiv:2003.06629](#)

Title: "Thermodynamic anomalies and three distinct liquid-liquid transitions in warm dense liquid hydrogen"

Author: Hua Y. Geng, Q. Wu, Miriam Marqués, Graeme J. Ackland

Comments: 34 pages, 7 figures, with Supplementary Material

Subjects: Materials Science (cond-mat.mtrl-sci); Earth and Planetary Astrophysics (astro-ph.EP); Computational Physics (physics.comp-ph)

[理論/観測/実験 etc....]

Comment!!!!

[12] [arxiv:2003.06604](#)

Title: "Measurements of the neutral particle spectra on Mars by MSL/RAD from 2015-11-15 to 2016-01-15"

Author: Jingnan Guo, Cary Zeitlin, Robert Wimmer-Schweingruber, Donald M. Hassler, Jan Koehler, Bent Ehresmann, Stephan Boettcher, Eckart Boehm, David E. Brinza

Subjects: Instrumentation and Detectors (physics.ins-det); Earth and Planetary Astrophysics (astro-ph.EP); Instrumentation and Methods for Astrophysics (astro-ph.IM)

[観測/火星表面での中性粒子]

Curiosity の観測装置 RAD を使って、火星表面に降り注ぐ中性粒子の量を長期間観測した。将来の有人探査でのリスクの評価、および粒子輸送シミュレーションの整合性の評価を行った。

3 月 18 日 (水曜日)

[1] [arxiv:2003.07835](#)

Title: "Nodal Precession in Closely Spaced Planet Pairs"

Author: Nora Bailey, Daniel Fabrycky

Comments: 18 pages, 11 figures, submitted to AJ

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[理論/観測/実験 etc....]

Comment!!!!

[2] [arxiv:2003.07707](#)

Title: "Mitigating flicker noise in high-precision photometry. I – Characterization of the noise structure, impact on the inferred transit parameters, and

predictions for CHEOPS observations”

Author:Sulis S., Lendl M., Hofmeister S., Veronig A., Fossati L., Cubillos P., Van Grootel V

Comments: 20 pages, 24 figures, accepted for publication in Astronomy & Astrophysics

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[3] [arxiv:2003.07620](#)

Title: **”CHEOPS observations of TESS primary mission monotransits”**

Author:Benjamin F. Cooke, Don Pollacco, Monika Lendl, Thibault Kuntzer, Andrea Fortier

Comments: 7 pages, 8 figures. Accepted for publication in MNRAS

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[4] [arxiv:2003.07509](#)

Title: **”Tidal and general relativistic effects in rocky planet formation at the sub-stellar mass limit using N-body simulations”**

Author:M.B. Sánchez, G.C. de Elía, J.J. Downes

Comments: 16 pages, 17 figures

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[5] [arxiv:2003.07447](#)

Title: **”Cryogenic-specific reddish coloration by cryoplasma: New explanation to color diversity of outer solar system objects”**

Author:Noritaka Sakakibara, Yu Yu Phua, Tsuyohito Ito, Kazuo Terashima

Comments: 31 pages, 13 figures, published in ApJL on March 16, 2020

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Instrumentation and Methods for Astrophysics (astro-ph.IM)

[理論/観測/実験 etc....]

Comment!!!!

[6] [arxiv:2003.07805](#)

Title: **”A Flat-Panel Brightness Model for the Starlink Satellites and Measurement**

of their Absolute Visual Magnitude”

Author:Anthony Mallama

Subjects: Instrumentation and Methods for Astrophysics (astro-ph.IM); Earth and Planetary Astrophysics (astro-ph.EP)

[理論/観測/実験 etc....]

Comment!!!!

[7] [arxiv:2003.07471](#)

Title: ”The CARMENES search for exoplanets around M dwarfs. Radial velocities and activity indicators from cross-correlation functions with weighted binary masks”

Author:M. Lafarga, I. Ribas, C. Lovis, M. Perger, M. Zechmeister, F. F. Bauer, M. Kürster, M. Cortés-Contreras, J. C. Morales, E. Herrero, A. Rosich, D. Baroch, A. Reiners, J. A. Caballer, A. Quirrenbach, P. J. Amado, J. M. Alacid, V. J. S. Béjar, S. Dreizler, A. P. Hatzes, T. Henning, S. V. Jeffers, A. Kaminski, D. Montes, S. Pedraz, C. Rodríguez-López, J. H. M. M. Schmitt

Comments: 24 pages, 14 figures. Accepted for publication in A&A. Code available at this [https URL](#)

Subjects: Instrumentation and Methods for Astrophysics (astro-ph.IM); Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

3月19日(木曜日)

[1] [arxiv:2003.08189](#)

Title: ”Spirals inside the millimeter cavity of transition disk SR 21”

Author:G. A. Muro-Arena, C. Ginski, C. Dominik, M. Benisty, P. Pinilla, A. J. Bohn, T. Moldenhauer, W. Kley, D. Harsono, T. Henning, R. G. van Holstein, M. Janson, M. Keppler, F. Ménard, L. M. Pérez, T. Stolker, M. Tazzari, M. Villenave, A. Zurlo, C. Petit, F. Rigal, O. Möller-Nilsson, M. Llored, T. Moulin, P.Rabou

Comments: 7 pages, 4 figures

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[2] [arxive:2003.08103](#)

Title: "Impact Ejecta near the Impact Point Observed using Ultra-high-speed Imaging and SPH Simulations, and a Comparison of the Two Methods"

Author: Takaya Okamoto, Kosuke Kurosawa, Hidenori Genda, Takafumi Matsui

Comments: 33 pages, 16 figures, 1 supporting information, accepted for publication in Journal of Geophysical Research: Planets

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[理論/観測/実験 etc....]

Comment!!!!

[3] [arxive:2003.07985](#)

Title: "Tether Capture of spacecraft at Neptune"

Author: J. R. Sanmartín, J. Peláez

Comments: 6 pages, 5 figures

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Instrumentation and Methods for Astrophysics (astro-ph.IM); Space Physics (physics.space-ph)

[理論/観測/実験 etc....]

Comment!!!!

[4] [arxive:2003.07922](#)

Title: "Accretion Properties of PDS 70b with MUSE"

Author: Jun Hashimoto, Yuhiko Aoyama, Mihoko Konishi, Taichi Uyama, Shinsuke Takasao, Masahiro Ikoma, Takayuki Tanigawa

Comments: Accepted for publication in The Astronomical Journal

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[5] [arxive:2003.07866](#)

Title: "Repeated Impact-Driven Plume Formation On Enceladus Over Myr Timescales"

Author: Amir Siraj, Abraham Loeb

Comments: 5 pages, 4 figures; submitted to ApJL

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[理論/観測/実験 etc....]

Comment!!!!

[6] [arXiv:2003.07363](#)

Title: "Axion Quark Nuggets. SkyQuakes and Other Mysterious Explosions"

Author: Dmitry Budker, Victor V. Flambaum, Ariel Zhitnitsky

Comments: 15 pages, 4 figures

Subjects: High Energy Physics - Phenomenology (hep-ph); Cosmology and Nongalactic Astrophysics (astro-ph.CO); Earth and Planetary Astrophysics (astro-ph.EP); Atmospheric and Oceanic Physics (physics.aop-ph); Geophysics (physics.geo-ph)

[理論/観測/実験 etc....]

Comment!!!!

3月20日(金曜日)

[1] [arXiv:2003.08901](#)

Title: "Testing the isotropy of the Dark Energy Survey's extreme trans-Neptunian objects"

Author: Pedro H. Bernardinelli, Gary M. Bernstein, Masao Sako, Stephanie Hamilton, David W. Gerdes, Fred C. Adams, William R. Saunders, M. Agüena, S. Allam, S. Avila, D. Brooks, H. T. Diehl, P. Doel, S. Everett, J. García-Bellido, E. Gaztanaga, R. A. Gruendl, K. Honscheid, R. L. C. Ogando, A. Palmese, D. L. Tucker, A. R. Walker

Comments: Submitted to AAS journals

Subjects: Earth and Planetary Astrophysics (astro-ph.EP)

[理論/観測/実験 etc....]

Comment!!!!

[2] [arXiv:2003.08658](#)

Title: "ALMA 0.88 mm Survey of Disks around Planetary-mass Companions"

Author: Ya-Lin Wu, Brendan P. Bowler, Patrick D. Sheehan, Sean M. Andrews, Gregory J. Herczeg, Adam L. Kraus, Luca Ricci, David J. Wilner, Zhao-huan Zhu

Comments: Accepted for publication in AJ

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[3] [arXiv:2003.08451](#)

Title: "Bolometric Bond Albedo and Thermal Inertia Maps of Mimas"

Author:Carly Howett, John Spencer, Tom Nordheim

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Space Physics (physics.space-ph)

[理論/観測/実験 etc....]

Comment!!!!

[4] [arXiv:2003.08431](#)

Title: "Kepler Planets and Metallicity"

Author:Taylor Kutra, Yanqin Wu

Comments: Submitted to ApJ

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[5] [arXiv:2003.08410](#)

Title: "Necroplanetology: Simulating the Tidal Disruption of Differentiated Planetary Material Orbiting WD 1145+017"

Author:Girish M. Duvvuri, Seth Redfield, Dimitri Veras

Comments: Accepted for publication in the Astrophysical Journal on the 11th of March, 2020. 14 pages, 3 figures, 2 tables. Pre-proofs

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[6] [arXiv:2003.08852](#)

Title: "Performance Verification of the EXtreme PREcision Spectrograph"

Author:Ryan T. Blackman, Debra A. Fischer, Colby A. Jurgenson, David Sawyer, Tyler M. McCracken, Andrew E. Szymkowiak, Ryan R. Petersburg, J. M. Joel Ong, John M. Brewer, Lily L. Zhao, Christopher Leet, Lars A. Buchhave, René Tronsgaard, Joe Llama, Travis Sawyer, Allen B. Davis, Samuel H. C. Cabot, Michael Shao, Russell Trahan, Bijan Nemati, Matteo Genoni, Giorgio Pariani, Marco Riva, Rafael A. Probst, Ronald Holzwarth, Tilo Steinmetz, Paul Fournier, Rafal Pawluczyk

Comments: 39 pages, 30 figures, accepted to AJ

Subjects: Instrumentation and Methods for Astrophysics (astro-ph.IM); Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[7] [arxive:2003.08851](#)

Title: "An Extreme Precision Radial Velocity Pipeline: First Radial Velocities from EXPRES"

Author: Ryan R. Petersburg, J. M. Joel Ong, Lily L. Zhao, Ryan T. Blackman, John M. Brewer, Lars A. Buchhave, Samuel H. C. Cabot, Allen B. Davis, Colby A. Jurgenson, Christopher Leet, Tyler M. McCracken, David Sawyer, Mikhail Sharov, René Tronsgaard, Andrew E. Szymkowiak, Debra A. Fischer

Subjects: Instrumentation and Methods for Astrophysics (astro-ph.IM); Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR)

[理論/観測/実験 etc....]

Comment!!!!

[8] [arxive:2003.08812](#)

Title: "Global trends in winds of M dwarf stars"

Author: Amanda Mesquita, Aline Vidotto

Comments: 12 pages, 11 figures

Subjects: Solar and Stellar Astrophysics (astro-ph.SR); Earth and Planetary Astrophysics (astro-ph.EP)

[理論/観測/実験 etc....]

Comment!!!!

Nature

ない

Science

ない