

2019年 12月 第3週 新着論文サーベイ

12月 16日 (月曜日)

[1] [arxiv:1912.06544](#)

Title: "Layerings in the nucleus of comet 67P/Churyumov-Gerasimenko"

Author: Birko-Katarina Ruzicka

Comments: Dissertaton, Gottingen, 11.09.2019. online version with abbreviated Appendix B.4, full version available under ISBN 978-3-947208-20-3

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

[観測]

Rosetta mission で撮影された 67P 表面の高解像度画像を独自のアルゴリズムで解析した。彗星核表面の層構造の成因について 2つの説を提案した。

[2] [arxiv:1912.06456](#)

Title: "A satellite orbit drift in binary near-Earth asteroids (66391) 1999 KW4 and (88710) 2001 SL9 – Indication of the BYORP effect"

Author: P. Scheirich, P. Pravec, P. Kušnirák, K. Hornoch, J. McMahon, D. J. Scheeres, D. Čapek, D. P. Pray, H. Kučáková, A. Galád, J. Vraštil, Yu. N. Krugly, N. Moskovitz, L. D. Avner, B. Skiff, R. S. McMillan, J. A. Larsen, M. J. Brucker, A. F. Tubbiolo, W. R. Cooney, J. Gross, D. Terrell, O. Burkhanov, K. E. Ergashev, Sh. A. Ehgamberdiev, P. Fatka, R. Durkee, E. Lilly Schunova, R. Ya. Inasaridze, V. R. Ayvazian, G. Kapanadze, N. M. Gaftonyuk, J. A. Sanchez, V. Reddy, L. McGraw, M. S. Kelley, I. E. Molotov

Comments: 39 pages, 14 figures. Submitted to Icarus journal

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

[観測]

2重小惑星 1999KW4 と 2001SL9 を 19年間にわたり測光観測し、binary system の軌道周期がどちらの小惑星でも一定でないことを見出した。binary system の軌道長半径が変動していることを示唆しており、1999KW4 では 1.2 ± 0.3 cm/yr、2012SL9 では -2.8 ± 0.2 or -5.1 ± 0.2 cm/yr と見積もった。1999KW4 の結果は binary YORP 効果では十分に説明できず、binary YORP の理論が間違っているか、または計算に用いた 1999KW4 の形状が間違っていると考えられる。

[3] [arxiv:1912.06266](#)

Title: "Low activity main belt comet 133P/Elst-Pizarro: New constraints on its

Albedo, Temperature and Active Mechanism from a thermophysical perspective”

Author:Liang Liang Yu, Chih-Hao Hsia, Wing-Huen Ip

Comments: 11 pages, 9 figures, accepted for publication in The Astronomical Journal

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

[観測]

最初に確認されたメインベルト彗星である 133P を Spitzer と WISE で観測し、核のサイズやアルベドを求めた。このアルベドから表面の温度分布 (40-200K) とガス生成レートを算出した。ガス生成レートは 67P の値よりも非常に小さく、133P が厚いダストのマントルで覆われていることを示唆している。

[4] [arxiv:1912.06161](#)

Title: ”Low Resolution Optical Spectra and Diatomic Carbon Detections of 2I/Borisov”

Author:Hsing Wen Lin, Chien-Hsiu Lee, David W. Gerdes, Fred C. Adams, Juliette Becker, Kevin Napier, Larissa Markwardt

Comments: 8 pages, 3 figures. Submitted to AAS Journals

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

[観測]

2I/Borisov を MDM Hiltner 2.4m 望遠鏡で分光観測して低分散のスペクトル (370 nm - 920 nm) を取得した。CN と C₂ の輝線強度から分子の生成率を見積もったところ、Borisov には炭素鎖の分子が少ないことが示唆された。この特徴は太陽系内の彗星でも珍しくない。

[5] [arxiv:1912.06154](#)

Title: ”The evolution of dust in discs influenced by external photoevaporation”

Author:Andrew D. Sellek, Richard A. Booth, Cathie J. Clarke

Comments: 16 pages, 13 figures, Accepted for publication in MNRAS

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

[理論]

原始惑星系円盤でガスが光蒸発によって散逸する際の、ダストの量の変動について。

[6] [arxiv:1912.06213](#)

Title: ”Origins Space Telescope Mission Concept Study Report”

Author:A. Cooray, M. Meixner, D. Leisawitz, J. Staguhn, L. Armus, C. Battersby, J. Bauer, E. Bergin, C.M. Bradford, K. Ennico-Smith, J. Fortney, T. Kataria, G. Melnick, S. Milam, D. Narayanan, D. Padgett, K. Pontopidan, A. Pope, T. Roellig, K. Sandstrom, K. Stevenson, K. Su, J. Vieira, E. Wright, J. Zmuidzinas

Comments: 376 pages

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

[装置]

Origins Space Telescope についての報告書。4.5 K まで冷凍した望遠鏡を搭載して、2.8-588 μm の波長域で従来の1000 倍の感度を目指す。

12 月 17 日 (火曜日)

[1] [arxiv:1912.07386](#)

Title: "Evolving Coma Morphology of Interstellar Comet 2I/Borisov with Deep HST Imaging"

Author: Bryce T. Bolin

Comments: 5 pages, 4 figures and 1 table, submitted to MNRAS Letters. arXiv admin note: substantial text overlap with arXiv:1910.14004

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

[理論/観測/実験 etc....]

Comment!!!!

[2] [arxiv:1912.07313](#)

Title: "Type II migration strikes back – An old paradigm for planet migration in discs"

Author: Chiara E. Scardoni, Giovanni P. Rosotti, Giuseppe Lodato, Cathie J. Clarke

Comments: 12 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!!!!

[3] [arxiv:1912.07246](#)

Title: "A new chemical scheme for giant planet thermochemistry. Update of the methanol chemistry and new reduced chemical scheme"

Author: Olivia Venot, Thibault Cavalié, Roda Bounaceur, Pascal Tremblin, Lothaire Brouillard, Romain Lhoussaine Ben Brahim

Comments: 18 pages, 23 figures, accepted for publication in A&A

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

[理論/観測/実験 etc....]

Comment!!!!

[4] [arxiv:1912.07027](#)

Title: "Hydrodynamic escape of water vapor atmospheres near very active stars"

Author: Colin P. Johnstone

Comments: 12 pages, 9 figures, 1 table, accepted for publication in 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:1912.06913](#)

Title: "Is π Men c's atmosphere hydrogen-dominated? Insights from a non-detection of H γ Ly-alpha absorption"

Author: Antonio García Muñoz, Allison Youngblood, Luca Fossati, Davide Gandolfi, Juan Cabrera, Heike Rauer

Comments: Accepted for publication in the Astrophysical Journal Letters. 30 pages, 6+2 figures, 1+1 tables

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

[理論/観測/実験 etc....]

Comment!!!!

[6] [arxiv:1912.06773](#)

Title: "*TESS* Phase Curve of the Hot Jupiter WASP-19b"

Author: Ian Wong, Björn Benneke, Avi Shporer, Tara Fetherolf, Stephen R. Kane, George R. Ricker, Roland Vanderspek, Sara Seager, Joshua N. Winn, Karen A. Collins, Ismael Mireles, Robert Morris, Peter Tenenbaum, Eric B. Ting, Stephen Rinehart, Jesus Noel Villaseñor

Comments: 11 pages, 4 figures, submitted to AJ

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arxiv:1912.07282](#)

Title: "Probing Coronal Magnetic Fields with Sungrazing Comets: h_i Ly α from Pickup Ions"

Author: John Raymond, Silvio Giordano

Comments: 15 pages, 9 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[8] [arxiv:1912.06867](#)

Title: "Could star-planet magnetic interactions lead to planet migration and influence stellar rotation ?"

Author: Jérémy Ahuir, Antoine Strugarek, Allan-Sacha Brun, Stéphane Mathis, Emeline Bolmont, Mansour Benbakoura, Victor Réville, Christophe Le Poncin-Lafitte

Comments: 5 pages, 2 figures, to appear in the Proceedings of IAU Symposium No. 354 - Solar and Stellar Magnetic Fields: Origins and Manifestations

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

[理論/観測/実験 etc....]

Comment!!!!

[9] [arxiv:1912.06788](#)

Title: "Dynamics of small grains in transitional discs"

Author: Mark R. Krumholz, Michael J. Ireland, Kaitlin M. Kratter

Comments: 17 pages, 9 figures; submitted to MNRAS; movies of simulation results available from this http URL

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

[理論/観測/実験 etc....]

Comment!!!!

12月18日(水曜日)

[1] [arxiv:1912.08049](#)

Title: "Can close-in giant exoplanets preserve detectable moons?"

Author: Mario Sucerquia, Vanesa Ramírez, Jaime A. Alvarado-Montes, Jorge I. Zuluaga

Comments: 11 pages, 8 figures. Accepted for publication in MNRAS

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

[理論/観測/実験 etc....]

今まで発見されてきた系外惑星の多くは close-in な惑星であるため、exo-moon は惑星の潮汐作用を受け、また軌道離脱をしやすいので、これまで exo-moon が発見されてこなかったのかもしれない。最近の exo-moon の潮汐駆動された軌道進化のモデルでは惑星と衝突するシナリオは考えにくく、外側に軌道が移って "satellite tidal orbital parking distance" (a_{stop}) という距離まで到達することが予想されている。この a_{stop} は衛星の質量比や軌道長半径、回転率に依存するため、シミュレーションによって様々な初期条件で a_{stop} を計算し、close-in 惑星に付随する exo-moon の transit の検出可能性を調べた。質量比 $> 10^{-4}$ の exomoon は軌道安定し現在の観測装置 (Kepler or TESS) で発見できる (ただし、高い観測頻度は必要) が、より小さい exomoon は起動が安定しないのでそのような exomoon は発見できない。ま

た、本論文の潮汐起動進化モデルを適用すると長周期惑星は exomoon を保持する可能性は十分にあるらしい。

[2] [arxiv:1912.08018](#)

Title: "Martian water ice clouds during the 2018 global dust event as observed by the ACS-MIR channel onboard the Trace Gas Orbiter"

Author: Aurélien Stcherbinine, Mathieu Vincendon, Franck Montmessin, Michael Wolff, Oleg Korablev, Anna Fedorova, Alexander Trokhimovskiy, Andrey Patrakeev, Alexey Shakun

Comments: Submitted to JGR: Planets (25 pages, 17 figures, 2 tables)

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

[理論/観測/実験 etc....]

2.3 – 4.6 μm の中間赤外波長領域の太陽掩蔽を観測して、global dust event (GDE) MY34 前後の火星の氷雲の挙動を調べた。高度によって変化する雲の粒子サイズや雲の高度自体の変化から、GDE が火星の雲の形成に大きな影響を与えることが示唆された。

[3] [arxiv:1912.07910](#)

Title: "Turbulent viscosity acting on the equilibrium tidal flow in convective stars"

Author: Jérémie Vidal, Adrian J. Barker

Comments: 13 pages, 7 figures, 2 tables, accepted for publication in The Astrophysical Journal Letters on 14th December 2019

Subjects: Solar and Stellar Astrophysics (astro-ph.SR); Earth and Planetary Astrophysics (astro-ph.EP); Fluid Dynamics (physics.flu-dyn)

[理論/観測/実験 etc....]

恒星の対流の乱流粘性についての論文。内容は把握してませんが、close-binary や太陽型星のスピン同期、低質量星の円形化などに影響するらしいです。短周期惑星の軌道を決める時にも重要(?)。

[4] [arxiv:1912.07759](#)

Title: "TauREx III: A fast, dynamic and extendable framework for retrievals"

Author: Ahmed F. Al-Refaie, Quentin Changeat, Ingo P. Waldmann, Giovanna Tinetti

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

[理論/観測/実験 etc....]

Atmospheric retrieval のための python フレームワーク TauREx についての論文。

[5] [arxiv:1912.07715](#)

Title: "Spurious Acceleration Noise on the LISA Spacecraft due to Solar Activity"

Author: Barrett M. Frank, Brandon Piotrkowski, Brett Bolen, Marco Cavaglia,

Shane L. Larson

Subjects: Instrumentation and Methods for Astrophysics (astro-ph.IM); Earth and Planetary Astrophysics (astro-ph.EP); General Relativity and Quantum Cosmology (gr-qc); Space Physics (physics.space-ph)

[理論/観測/実験 etc....]

将来打ち上げ予定の重力波検出レーザー干渉計 LISA について、これまで詳細に考慮されていなかった太陽放射が重力波の周波数帯において大きなノイズになりうるののでそれについて調べた。

[6] [arxiv:1912.07692](#)

Title: "Improved infrared photometry and a preliminary parallax measurement for the extremely cold brown dwarf CWISEP J144606.62–231717.8"

Author: Federico Marocco, J. Davy Kirkpatrick, Aaron M. Meisner, Dan Caselden, Peter R. M. Eisenhardt, Michael C. Cushing, Jacqueline K. Faherty, Christopher R. Gelino, Edward L. Wright

Comments: Accepted by ApJL. 8 pages, 3 figures, 1 table

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

[理論/観測/実験 etc....]

褐色矮星 CWISEP J144606.62–231717.8 について測光精度 (Spitzer, WISE, NEOWISE の観測) や parallax 観測精度を高めて物理パラメータを refine した。CWISEP J144606.62–231717.8 は、これまで発見された中で 5 番目に赤い褐色矮星で、parallax 観測から $d = 10.1_{-1.3}^{+1.7}$ pc で有効温度 $T_{\text{eff}} = 310 - 360$ K、年齢を 0.5 – 1.3 Gyr と仮定すれば mass range は $2 - 20M_{\text{Jup}}$ になる。

[7] [arxiv:1912.07659](#)

Title: "Gaia's revolution in stellar variability"

Author: L. Eyer, L. Rimoldini, L. Rohrbasser, B. Holl, M. Audard, D.W. Evans, P. Garcia-Lario, P. Gavras, G. Clementini, S. T. Hodgkin, G. Jevardat de Fombelle, A. C. Lanzafame, T. Lebzelter, I. Lecoœur-Taibi, N. Mowlavi, K. Nienartowicz, V. Ripepi, L. Wyrzykowski

Comments: 7 pages, 4 figures, invited contribution at the conference "Stars and their variability observed from space - Celebrating the 5th anniversary of BRIT-Constellation", Vienna, Austria, August 19 - 23, 2019. Eds: C. Neiner, W. Weiss, D. Baade, E. Griffin, C. Lovekin, A. Moffat

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

[理論/観測/実験 etc....]

Gaia の Data Release に関する論文? Gaia 衛星のデータによって、多くの星を HR 図上に図示することで脈動変光星の不安定帯を決定できる。数百万個の変光星を検出し、それぞれの特徴づけまで測光、分光観測により行っている。また、RR Lyrae 星分布から Gaia データで銀河系 3D 構造を推定する方法を紹介している。

[8] [arxive:1908.07151](#)

Title: "Trend Filtering: A Modern Statistical Tool for Time-Domain Astronomy and Astronomical Spectroscopy"

Author: Collin A. Politsch, Jessi Cisewski-Kehe, Rupert A. C. Croft, Larry Wasserman

Comments: 28 pages, 10 figures

Subjects: Instrumentation and Methods for Astrophysics (astro-ph.IM); Cosmology and Nongalactic Astrophysics (astro-ph.CO); Earth and Planetary Astrophysics (astro-ph.EP); Solar and Stellar Astrophysics (astro-ph.SR); Applications (stat.AP)

[理論/観測/実験 etc....]

光度曲線やスペクトルのキャリブレーションの手法で trend filtering というものを提案している。観測したいシグナルが空間的に不均一な場合に、ガウス過程などの他の手法よりも優れているらしい。

12月19日(木曜日)

[1] [arxive:1912.08781](#)

Title: "Clouds will likely prevent the detection of water vapor in JWST transmission spectra of terrestrial exoplanets"

Author: Thaddeus D. Komacek, Thomas J. Fauchez, Eric T. Wolf, Dorian S. Abbot

Comments: 7 pages, 3 figures, accepted at ApJ Letters

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

[理論/観測/実験 etc....]

Comment!!!!

[2] [arxive:1912.08743](#)

Title: "Ozone chemistry on tidally locked M dwarf planets"

Author: Jack S. Yates, Paul I. Palmer, James Manners, Ian Boutle, Krisztian Kohary, Nathan Mayne, Luke Abraham

Comments: Accepted for publication in MNRAS. 25 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!!!!

[3] [arxive:1912.08728](#)

Title: "Tidal evolution of circumbinary systems with arbitrary eccentricities: applications for Kepler systems"

Author:F. A. Zoppetti, A. M. Leiva, C. Beaugé

Comments: 11 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!!!!

[4] [arXiv:1912.08617](#)

Title: "The Phenomenon of Shape Evolution due to Solar Driven Outgassing for Analogues of Small Kuiper Belt Objects"

Author:Yuhui Zhao, Ladislav Rezac, Yuri Skorov, Jian-Yang Li

Comments: 16 pages, 15 figures, accepted for publication in MNRAS

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

[理論/観測/実験 etc....]

Comment!!!!

[5] [arXiv:1912.08235](#)

Title: "Dim Prospects for Transmission Spectra of Ocean Earths Around M Stars"

Author:Gabrielle Suissa, Avi M. Mandell, Eric T. Wolf, Geronimo L. Villanueva, Thomas Fauchez, Ravi kumar Kopparapu

Comments: Resubmitted to ApJ after revisions, 25 pages, 10 figures

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:1912.08659](#)

Title: "Chemical abundances of 1111 FGK stars from the HARPS-GTO planet search sample. III. Sulfur"

Author:Ana Rita Costa Silva, Elisa Delgado Mena, Maria Tsantaki

Comments: 11 pages, 10 figures. Paper has been accepted for publication in Astronomy & Astrophysics

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arXiv:1912.08572](#)

Title: "Evolution of a Viscous Protoplanetary Disk with Convectively Unstable Regions"

Author:Ya. N. Pavlyuchenkov, A. V. Tutukov, L. A. Maksimova, E. I. Vorobyov

Comments: Accepted for publication in Astronomy Reports

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

[理論/観測/実験 etc....]

Comment!!!!

[8] [arxive:1912.08386](#)

Title: "Why SETI Will Fail"

Author: B. Zuckerman

Comments: This article was published in the Sept-Oct 2002 issue of Mercury magazine (published by the Astron. Soc. of the Pacific). Mercury articles were not then available on-line. The present posting is the first on the internet. An electronic (pdf) version of the published article (with some additional words and figures and in color) is available via request at benatastro.ucla.edu

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

[理論/観測/実験 etc....]

Comment!!!!

12月20日(金曜日)

[1] [arxive:1912.09309](#)

Title: "Andrade rheology in time-domain. Application to Enceladus' dissipation of energy due to forced libration"

Author: Yeva Gevorgyan, Gwenaél Boué, Clodoaldo Ragazzo, Lucas S. Ruiz, Alexandre C. M. Correia

Comments: Preprint 'elsart' style, 22 pages, 9 multiple figures. Accepted for publication in Icarus

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Numerical Analysis (math.NA)

[理論/観測/実験 etc....]

Comment!!!!

[2] [arxive:1912.09192](#)

Title: "Photometric analyses of Saturn's small moons: Aegaeon, Methone and Pallene are dark; Helene and Calypso are bright"

Author: M.M. Hedman, P. Helfenstein, R.O. Chancia, P. Thomas, E. Roussos, C. Paranicas, A.J. Verbiscer

Comments: 93 pages, 23 figures, 28 tables. Accepted for publication in AJ

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

[理論/観測/実験 etc....]

Comment!!!!

[3] [arXiv:1912.09118](#)

Title: "Secular resonance sweeping and orbital excitation in decaying disks"

Author: A. Toliou, K. Tsiganis, G. Tsirvoulis

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

[理論/観測/実験 etc....]

Comment!!!!

[4] [arXiv:1912.09032](#)

Title: "Disassociation energies for the finite density N-body problem"

Author: Daniel J. Scheeres

Comments: Accepted in Celestial Mechanics and Dynamical Astronomy, Topical Collection of the 50th Anniversary Issue

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Dynamical Systems (math.DS)

[理論/観測/実験 etc....]

Comment!!!!

[5] [arXiv:1912.08994](#)

Title: "Crater-ray formation through mutual collisions of hypervelocity-impact induced ejecta particles"

Author: Toshihiko Kadono, Ayako I. Suzuki, Rintaro Matsumura, Junta Naka, Ryo Suetsugu, Kosuke Kurosawa, Sunao Hasegawa

Comments: 22 pages and 7 figures, accepted for publication in Icarus

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

[理論/観測/実験 etc....]

Comment!!!!

[6] [arXiv:1912.08838](#)

Title: "Parker Solar Probe Observations of a Dust Trail in the Orbit of (3200) Phaethon"

Author: Karl Battams, Matthew M. Knight, Michael S.P. Kelley, Brendan M. Gallagher, Russell A. Howard, Guillermo Stenborg

Comments: 14 Pages, 7 Figures; Submitted to ApJ

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arXiv:1912.08820](#)

Title:

”Survival of Primordial Planetary Atmospheres: Photodissociation Driven Mass Loss”

Author: Alex R. Howe, Fred C. Adams, Michael R. Meyer

Comments: Accepted by ApJ (26 pages, 2 figures, 3 tables)

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

[理論/観測/実験 etc....]

Comment!!!!

[8] [arxiv:1912.09269](#)

Title: ”Machine Learning Regression of extinction in the second *Gaia* Data Release”

Author: Yu Bai, JiFeng Liu, YiLun Wang, Song Wang

Comments: arXiv admin note: text overlap with arXiv:1906.09695

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

[理論/観測/実験 etc....]

Comment!!!!

[9] [arxiv:1912.09136](#)

Title: ”Correction of the VIR-Visible data set from the Dawn mission”

Author: B. Rousseau, A. Raponi, M. Ciarniello, E. Ammannito, F. G. Carrozzo, M. C. De Sanctis, S. Fonte, A. Frigeri, F. Tosi

Comments: The following article has been accepted by Review of Scientific Instruments on 24 November 2019.

After it is published, it will be found at this link: this https URL

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