

# 2021年 1月 第1週 新着論文サーベイ

12月29日(火曜日)

[1] [arXiv:2012.14316](#)

Title: "Storms and the Depletion of Ammonia in Jupiter: II. Explaining the Juno Observations"

Author: Tristan Guillot, Cheng Li, Scott Bolton, Shannon Brown, Andrew Ingersoll, Michael Janssen, Steven Levin, Jonathan Lunine, Glenn Orton, Paul Steffes, David Stevenson

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

[理論/観測/実験 etc....]

Comment!!!!

[2] [arXiv:2012.14315](#)

Title: "Tracing the formation history of giant planets in protoplanetary disks with Carbon, Oxygen, Nitrogen and Sulphur"

Author: Diego Turrini, Eugenio Schisano, Sergio Fonte, Sergio Molinari, Romolo Politi, Davide Fedele, Olja Panic, Mihkel Kama, Quentin Changeat, Giovanna Tinetti

Comments: 27 pages, 9 figures and 7 tables. Preprint of the manuscript accepted for publication on The Astrophysical Journal

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

[理論/観測/実験 etc....]

Comment!!!!

[3] [arXiv:2012.14245](#)

Title: "Are extrasolar Einstein's spinning tops habitable?"

Author: Lorenzo Iorio

Comments: LaTeX2e, 19 pages, 3 figures, no tables

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

[理論/観測/実験 etc....]

Comment!!!!

[4] [arXiv:2012.14068](#)

Title: "Contrast and Temperature Dependence of Multi-Epoch High-Resolution Cross-Correlation Exoplanet Spectroscopy"

Author: Luke Finnerty, Cam Buzard, Stefan Pelletier, Danielle Piskorz, Alexandra C. Lockwood, Chad F. Bender, Björn Benneke, Geoffrey A. Blake

Comments: 22 pages, 8 figures, accepted to AJ

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

[理論/観測/実験 etc....]

Comment!!!!

[5] [arXiv:2012.13694](#)

Title: "Host star metallicity of directly imaged wide-orbit planets: implications for planet formation"

Author: C. Swastik, Ravinder K. Banyal, Mayank Narang, P. Manoj, T. Sivarani, Bacham E. Reddy, S. P. Rajaguru

Comments: Accepted in AJ for publication

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:2012.13648](#)

Title: "Eccentric Early Migration of Neptune"

Author: David Nesvorny

Comments: ApJL

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arXiv:2012.14080](#)

Title: "Stellar parametrization of LAMOST M dwarf stars"

Author: Jiadong Li, Chao Liu, Bo Zhang, Hao Tian

Comments: 17 pages, 6 figures, submitted to ApJS

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!!!!

[8] [arXiv:2012.13907](#)

Title: "Low-mass and sub-stellar eclipsing binaries in stellar clusters"

Author: Nicolas Lodieu, Ernst Paunzen, Miloslav Zejda

Comments: 30 pages, 5 figures, no table. Review paper

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!!!!

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## 1 月 1 日 (金曜日)

[1] [arXiv:2012.15583](#)

Title: "Comet 12P/Pons-Brooks: Identification with Comets C/1385 U1 and C/1457 A1"

Author: Maik Meyer, Takao Kobayashi, Syuichi Nakano, Daniel W. E. Green

Comments: Submitted and to be published in the International Comet Quarterly, 16 pages, 6 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[2] [arXiv:2012.15300](#)

Title: "Main Belt Asteroid Histories: Simulations of erosion, cratering, catastrophic dispersions, spins, binaries and tumblers"

Author: Keith. A. Holsapple

Comments: Manuscript has 79 pages, including 35 Figures and 3 Tables

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Geophysics (physics.geo-ph)

[理論/観測/実験 etc....]

Comment!!!!

[3] [arXiv:2012.15226](#)

Title: "Isostasy with Love: II Viscoelastic relaxation"

Author: Mikael Beuthe

Comments: 42 pages, 8 figures, 4 tables

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Fluid Dynamics (physics.flu-dyn); Geophysics (physics.geo-ph)

[理論/観測/実験 etc....]

Comment!!!!

[4] [arXiv:2012.14852](#)

Title: "Radiation hydrodynamics simulations of protoplanetary disks: Stellar mass dependence of the disk photoevaporation rate"

Author: Ayano Komaki, Riouhei Nakatani, Naoki Yoshida

Comments: 14 pages, 12 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:2012.15379](#)

Title: "The CALYPSO IRAM-PdBI survey of jets from Class 0 protostars. Are jets ubiquitous in young stars ?"

Author: L. Podio, B. Tabone, C. Codella, F. Gueth, A. Maury, S. Cabrit, B. Lefloch, S. Maret, A. Belloche, P. André, S. Anderl, M. Gaudel, L. Testi

Comments: Accepted for publication by A&A, 40 pages, 7 figures + appendixes

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!!!!

[6] [arXiv:2012.14863](#)

Title: "Vacuum ultraviolet photoabsorption spectroscopy of space-related ices: Formation and destruction of solid carbonic acid upon 1 keV electron irradiation"

Author: S. Ioppolo, Z. Kanuchová, R. L. James, A. Dawes, A. Ryabov, J. Dezalay, N. C. Jones, S. V. Hoffmann, N. J. Mason, G. Strazzulla

Comments: Accepted for publication in Astronomy and Astrophysics

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arXiv:2012.14452](#)

Title: "Properties of a Previously Unidentified Instrumental Signature in *Kepler/K2* that was Confused for AGN Variability"

Author: Jackeline Moreno, Rachel Buttry, John O'Brien, Michael S. Vogeley, Gordon T. Richards, Krista Lynne Smith

Comments:

21 pages, 16 figures

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

[理論/観測/実験 etc....]

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