

2018年 6月 第4週 新着論文サーベイ

6月18日(月曜日)

[1] [arXiv:1806.06005](#)

Title: "Co-orbital resonance with a migrating proto-giant planet"

Author: Pablo Lemos, Tabaré Gallardo

Comments: This is a pre-copyedited, author-produced PDF of an article accepted for publication in PSS following peer review; 9 pages, 9 figures

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

[理論: 微惑星捕獲]

周星ガス円盤中で巨大惑星が migration し、小天体が惑星軌道に継続的に流入する可能性を説明したい。そのために、migration による共回転共鳴への捕獲とその共鳴の継続性について調べた。微惑星に作用する3つのガス状態(ガスなし、周星ガス円盤有り、周星・週惑星円盤有り)を考え、原始惑星 migration 中の捕獲の可能性・効率を調べた。

[2] [arXiv:1806.05909](#)

Title: "Planet Size Distribution from the Kepler Mission and its Implications for Planet Formation"

Author: Li Zeng, Stein B. Jacobsen, Eugenia Hyung, Andrew Vanderburg, Mercedes Lopez-Morales, Dimitar D. Sasselov, Juan Perez-Mercader, Michail I. Petaev, David W. Latham, Raphaëlle D. Haywood, Thomas K. R. Mattson

Comments: 2 pages, 4 figures, abstract publicly available since January 2017 (see this [https URL](https://arxiv.org/abs/1806.05909)) and presented at the 48th LPSC on March 23, 2017. Also See: this [http URL](http://www.lpsc.mit.edu/2017/03/23/)

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

[理論/観測/実験 etc....]

LPSC の集録の一つ。惑星の質量-半径分布の中で、rock,water,gas 的な惑星を領域的に分類できそう。

[3] [arXiv:1806.05700](#)

Title: "A More Informative Map: Inverting Thermal Orbital Phase and Eclipse Lightcurves of Exoplanets"

Author: E. Rauscher, V. Suri, N. B. Cowan

Comments: submitted to AAS Journals

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

[理論/観測/実験 etc....]

系外惑星表面の温度 mapping について。JWST 観測に向けて。

6月19日(火曜日)

[1] [arxiv:1806.06835](#)

Title: "Adiabatic Lapse Rate and Static Stability in the Venus Atmosphere calculated from Real Gas Mixture Models"

Author: Arkopal Dutt, Sanjay S. Limaye

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Atmospheric and Oceanic Physics (physics.ao-ph)

[理論/観測/実験 etc....]

Comment!!!!

[2] [arxiv:1806.06822](#)

Title: "Exploring exomoon atmospheres with an idealized general circulation model"

Author: Jacob Haqq-Misra, René Heller

Comments: Accepted for publication in MNRAS

Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Atmospheric and Oceanic Physics (physics.ao-ph)

[理論/観測/実験 etc....]

Comment!!!!

[3] [arxiv:1806.06636](#)

Title: "The astrometric signal of microlensing events caused by free floating planets"

Author: Lindita Hamolli, Mimoza Hafizi, Francesco De Paolis, Achille A. Nucita

Comments: 14 pages, 5 figures, 4 tables; Astrophysic and space science submitted

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

[理論/観測/実験 etc....]

Comment!!!!

[4] [arxiv:1806.06601](#)

Title: "Formation of hot Jupiters through disk migration and evolving stellar tides"

Author: René Heller

Comments: 11 pages, 7 figures (3 col, 4 b/w), submitted to A&A (25.05.2018), gnuplot file for Fig. 3(b) available at this [https URL](#)

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

[理論/観測/実験 etc....]

Comment!!!!

[5] [arXiv:1806.06483](#)

Title: "Chemical abundances of neutron capture elements in exoplanet-hosting stars"

Author: E. Delgado Mena, V. Zh. Adibekyan, P. Figueira, J. I. González Hernández, N. C. Santos, M. Tsantaki, S. G. Sousa, J.P. Faria, L. Suárez-Andrés, G. Israelian

Comments: Accepted for publication in PASP

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:1806.06419](#)

Title: "Analysis of close encounters with Ganymede and Callisto using a genetic n-body algorithm"

Author: Philip M. Winter, Mattia A. Galiazzo, Thomas I. Maindl

Comments: 18 pages, 3 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arXiv:1806.06106](#)

Title: "A Planetary Microlensing Event with an Unusually Red Source Star: MOA-2011-BLG-291"

Author: David P. Bennett, Andrzej Udalski, Ian A. Bond, Daisuke Suzuki, Yoon-Hyun Ryu, Fumio Abe, Richard K. Barry, Aparna Bhattacharya, Martin Donachie, Akihiko Fukui, Yuki Hirao, Kohei Kawasaki, Iona Kondo, Naoki Koshimoto, Man Cheung Alex Li, Yutaka Matsubara, Shota Miyazaki, Yasushi Muraki, Masayuki Nagakane, Koji Ohnishi, Clément Ranc, Nicholas J. Rattenbury, Haruno Suematsu, Takahiro Sumi, Paul J. Tristram, Atsunori Yonehara, Michał K. Szymański, Igor Soszyński, Łukasz Wyrzykowski, Krzysztof Ulaczyk, Radek Poleski, Szymon Kozłowski, Paweł Pietrukowicz, Jan Skowron, Yossi Shvartzvald, Dan Maoz, Shai Kaspi, Matan Friedmann, Virginie Batista, Darren DePoy, Subo Dong, B. Scott Gaudi, Andrew Gould, Cheongho Han, Richard W. Pogge, Thiam-Guan Tan, Jennifer C. Yee

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

[理論/観測/実験 etc....]

Comment!!!!

[8] [arxiv:1806.06099](#)

Title: "EPIC 246911830 b: a hot Jupiter transiting an F star, and EPIC 201498078 b: a warm Saturn around a bright G star"

Author: M. C. Johnson, F. Dai, A. B. Justesen, D. Gandolfi, A. P. Hatzes, G. Nowak, M. Endl, W. D. Cochran, D. Hidalgo, N. Watanabe, H. Parviainen, T. Hirano, S. Villanueva Jr., J. Prieto-Arranz, N. Narita, E. Pallé, E. W. Guenther, O. Barragán, T. Trifonov, P. Niraula, P. J. MacQueen, J. Cabrera, Sz. Csizmadia, Ph. Eigmüller, S. Grziwa, J. Korth, M. Pätzold, A. M. S. Smith, S. Albrecht, R. Alonso, H. Deeg, A. Erikson, M. Esposito, M. Fridlund, A. Fukui, N. Kusakabe, M. Kuzuhara, J. Livingston, P. Montañes Rodriguez, D. Nespral, C. M. Persson, T. Purismo, S. Raimundo, H. Rauer, I. Ribas, M. Tamura, V. Van Eylen, J. N. Winn

Comments: Resubmitted to MNRAS with revisions in response to referee comments. 18 pages, 10 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[9] [arxiv:1806.06089](#)

Title: "An absolute sodium abundance for a cloud-free 'hot Saturn' exoplanet"

Author: Nikolay Nikolov, David K. Sing, Jonathan J. Fortney, Jayesh M. Goyal, Benjamin Drummond, Tom M. Evans, Neale P. Gibson, Ernst J. W. De Mooij, Zafar Rustamkulov, Hannah R. Wakeford, Barry Smalley, Adam J. Burgasser, Coel Hellier, Christiane Helling, Nathan J. Mayne, Nikku Madhusudhan, Tiffany Kataria, Josef Baines, Aarynn L. Carter, Gilda E. Ballester, Joanna K. Barstow, Jack McCleery, Jessica J. Spake

Comments: Published in Nature

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

[理論/観測/実験 etc....]

Comment!!!!

[10] [arxiv:1806.06075](#)

Title: "Stability of exomoons around the Kepler transiting circumbinary planets"

Author: Adrian S. Hamers, Maxwell X. Cai, Javier Roa, Nathan Leigh

Comments: Submitted to MNRAS. 11 pages, 7 figures
Subjects: Earth and Planetary Astrophysics (astro-ph.EP)
[理論/観測/実験 etc....]
Comment!!!!

[11] [arxiv:1806.06612](#)

Title: "Three-dimensional solutions for the geostrophic flow in the Earth's core"
Author: Colin M. Hardy, Philip W. Livermore, Jitse Niesen, Jiawen Luo, Kuan Li
Comments: 29 Pages, 8 figures
Subjects: Geophysics (physics.geo-ph); Earth and Planetary Astrophysics (astro-ph.EP); Fluid Dynamics (physics.flu-dyn)
[理論/観測/実験 etc....]
Comment!!!!

[12] [arxiv:1806.06574](#)

Title: "Empirical relations for the accurate estimation of stellar masses and radii"
Author: Andy Moya, Federico Zuccarino, William J. Chaplin, Guy R. Davies
Comments: 49 Pages, 17 figures, 11 tables, accepted for publication in ApJS
Subjects: Solar and Stellar Astrophysics (astro-ph.SR); Earth and Planetary Astrophysics (astro-ph.EP)
[理論/観測/実験 etc....]
Comment!!!!

[13] [arxiv:1806.06074](#)

Title: "Dwarf carbon stars are likely metal-poor binaries and unlikely hosts to carbon planets"
Author: Lewis J. Whitehouse, J. Farihi, P. J. Green, T. G. Wilson, J. P. Subasavage
Comments: 5 pages, 1 figure, accepted to MNRAS
Subjects: Solar and Stellar Astrophysics (astro-ph.SR); Earth and Planetary Astrophysics (astro-ph.EP)
[理論/観測/実験 etc....]
Comment!!!!

6月20日(水曜日)

[1] [arxiv:1806.07354](#)

Title: "From Planetesimal to Planet in Turbulent Disks. II. Formation of Gas Giant Planets"
Author: Hiroshi Kobayashi, Hidekazu Tanaka
Comments:

12 pages, 15 figures. accepted for publication in ApJ

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

[理論]

コア集積モデルでは巨大ガス惑星は地球質量の惑星コアへのガス降着で形成する。本研究では km サイズ微惑星の乱流円盤中の合体成長について調べた。惑星コアが形成されると周りの微惑星をかき回して衝突破壊を促進する。強い乱流は惑星コアの暴走成長の始まりを遅らせるので、より大きい微惑星を食べてガス降着するのに十分な大きさのコアを作るには乱流パラメーター $\alpha \sim 10^{-3}$ が必要。一方で、これくらい乱流が強いと暴走成長の開始が遅くなり、コア成長のタイムスケールが円盤寿命を超えてしまうので数百万年で成長させるには何回か固体物質面密度を上げる必要がある。

[2] [arxiv:1806.07136](https://arxiv.org/abs/1806.07136)

Title: "Ice state evolution during spring in Richardson crater, Mars"

Author: François Andrieu, Frédéric Schmidt, Sylvain Douté, Eric Chassefière

Comments: Preprint accepted in Icarus (19/06/2018)

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

[理論：火星の氷]

冬の火星では極域に厚さ 1m、半径数千 km のドライアイスができる。凝集の過程で水やダストがドライアイスに取り込まれている可能性がある。Richardson クレーターでは水と出すと、CO₂ サイクルの強い相互作用が観測されており、本研究では逆輻射輸送モデルを用いて近赤外で見た CRISM スペクトル画像の解析を行った。ドライアイスの厚みは春の間に減少し、昇華する CO₂ とともに水が抜けていくことが示唆された。

[3] [arxiv:1806.06960](https://arxiv.org/abs/1806.06960)

Title: "Low mass planet migration in Hall-affected disks"

Author: Colin P. McNally, Richard P. Nelson, Sijme-Jan Paardekooper, Oliver Gressel, Wladimir Lyra

Comments: 7 pages, 4 figures, Proceedings of the 12th International Conference on Numerical Modeling of Space Plasma Flows: ASTRONUM-2017

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

[理論]

原始惑星系円盤の非理想 MHD シミュレーションから、粘性降着の他に、大スケールの wind トルクで駆動される赤道面上の流れがあることが示唆されている。このような円盤ではホール効果による水平方向の大スケール磁場が存在するため、乱流拡散が弱く、磁場と動径方向のガス流があつて従来の共回転トルクが適用できない。この中に惑星を置いたときの共回転領域の力学を調べた。

[4] [arxiv:1806.06948](https://arxiv.org/abs/1806.06948)

Title: "Ultraviolet Observations of Coronal Mass Ejection Impact on Comet 67P/Churyumov-Gerasimenko by Rosetta Alice"

Author: John W. Noonan, S. Alan Stern, Paul D. Feldman, Thomas Broiles, Cyril Simon Wedlund, Niklas J. T. Edberg, Eric Schindhelm, Joel Wm. Parker, Brian A. Keeney, Ronald J. Vervack Jr, Andrew J. Steffl, Matthew M.

Knight, Harold A. Weaver, Lori M. Feaga, Michael A'Hearn, Jean-Loup Bertaux

Comments: 11 pages, 7 figures, 3 tables

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

[観測]

ロゼッタに搭載されている紫外線分光器 Alice による 67P 彗星の観測で、CME の衝突による増光を捉えた。増光の原因は、CME と彗星コマの相互作用か、CME との衝突と同時に起こったアウトバーストが考えられるが、CME と UV 増光の関係はよくわかっていない。

[5] [arxiv:1806.06904](#)

Title: "Two Hyperbolic Baldheads in the Solar System: 2017 U7 and 2018 C2"

Author: Man-To Hui

Comments: AJ in press

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

[理論/観測]

最近発見された双曲線軌道を持つ天体 2017 U7, 2018 C2 についていろいろ調べた。カラーが他の長周期彗星やトロヤ群、D タイプ小惑星と同じで、N 体計算の結果からどちらもオールトの雲が起源である可能性が高い。

[6] [arxiv:1806.06897](#)

Title: "The Upper Atmospheres of Terrestrial Planets: Carbon Dioxide Cooling and the Earth's Thermospheric Evolution"

Author: Colin P. Johnstone, Manuel Güdel, Helmut Lammer, Kristina G. Kislyakova

Comments: 37 pages, 14 figures, to be published in A&A

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

[理論]

惑星の上層大気の熱化学構造の理解は大気進化において重要。1次元大気モデルを開発して大気の熱化学構造を、地球上層大気について CO₂ の abundance と太陽からの輻射フラックスを変えて計算した。結果、CO₂ の abundance を変えると大気の熱構造が大きく変化することがわかった。

[7] [arxiv:1806.06867](#)

Title: "The Secular Dynamics of TNOs and Planet Nine Interactions"

Author: Gongjie Li, Samuel Hadden, Matthew Payne, Matthew J. Holman

Comments: 18 pages, 27 figures submitted to AAS journal, comments welcome

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

[理論]

TNO の分布から第 9 惑星の存在が示唆されているが、未解決の力学的問題は多い。この研究では TNO とその外側を回る摂動体の永年相互作用について調べた。第 9 惑星が coplanar に近い場合は TNO の軌道面を傾けることがあり、それが起こると TNO の近日点は約 180 度動くことがわかった。

[8] [arXiv:1806.07262](#)

Title: "On the co-orbital motion in Three-Body Problem: Existence of quasi-periodic Horseshoe-shaped orbits"

Author: Laurent Niederman, Alexandre Pousse, Philippe Robutel

Comments: 40 pages, 5 figures

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

[理論]

Janus と Epimetheus は土星の衛星で、互いに 1:1 平均運動共鳴の関係にあり、馬蹄型軌道を描いている。またこれらの衛星はほぼ円軌道であるが、その軌道半径の差は 50km しかなく、4 年ごとに近接相互作用して軌道が入れ替わっている。KAM 理論を用いて 3 体問題を解いて、これら 2 つの衛星軌道を説明できるような 2 つの楕円軌道が存在することを示した。

[9] [arXiv:1806.06980](#)

Title: "Measurements of diffusion of volatiles in amorphous solid water: application to interstellar medium environments"

Author: Jiao He, SM Emtiaz, Gianfranco Vidali

Comments: 10 pages, 10 figures

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

[実験]

分子雲中のダストを覆う氷に含まれる分子/原子の拡散は宇宙における分子形成の重要な過程であるが、characterization が進んでいない。星間氷のアナログである非結晶水氷の分子拡散を測定した。

6 月 21 日 (木曜日)

[1] [arXiv:1806.07665](#)

Title: "Impact cratering mechanics: A forward approach to predicting ejecta velocity distribution and transient crater radii"

Author: Kosuke Kurosawa, Satoshi Takada

Comments: 57 pages, 11 figures, Accepted for publication in Icarus

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

[理論]

クレーターのサイズにはスケール則がある。このスケール則のパラメータを、Maxwell Z-model というモデルを用いて解析的に求めた。さらに、衝突最中のクレーターサイズの時間変化や、ejecta の速度分布も求めた。これらの情報は室内実験や数値計算によっても得ることができるが、解析的に求められれば、それらを素早く見積もることができる。

[2] [arxiv:1806.07707](#)

Title: "Chemistry in disks. XI. Sulfur-bearing species as tracers of protoplanetary disk physics and chemistry: the DM Tau case"

Author: D. Semenov, C. Favre, D. Fedele, S. Guilloteau, R. Teague, Th. Henning, A. Dutrey, E. Chapillon, F. Hersant, V. Piétu

Comments: Accepted by Astronomy & Astrophysics (15 pages, 15 figures, 8 tables)

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

[観測/ALMA/DM Tau]

ALMA で DM Tau を観測したところ、CS の柱密度が $\sim 2 - 6 \times 10^{12} \text{cm}^{-2}$ だと分かった。また、DM Tau で初めて SO_2 らしきものを見つけた。しかし、CS/SO や CS/SO₂ はかなり大きく、これは $r > 50 - 100 \text{AU}$ において $\text{C/O} > 1$ であることが必要である。O を含む硫黄化合物が少ないのは、 H_2O が少ないという観測結果と整合している。ガスから O を排除する何らかの仕組みがあるのかもしれない。

[3] [arxiv:1806.07680](#)

Title: "Physics of Eclipsing Binaries. III. Spin-Orbit Misalignment"

Author: Martin Horvat, Kyle E. Conroy, Herbert Pablo, Kelly M. Hambleton, Angela Kochoska, Joseph Giammarco, Andrej Prša

Comments: 20 pages, 10 figures, accepted in ApJS; accompanied by the release of PHOEBE 2.1 on this http URL

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

[理論]

連星系で、自転の向きが公転面に対して傾いているものを misaligned binary system という。この傾斜角は、一握りの数の星や惑星に対してしか求められていない。今回、misaligned binary system の星の形を計算して傾斜角を求める PHOEBE というコードを作り、DI Her 系と Kepler-13 系に適用した。

[4] [arxiv:1806.07675](#)

Title: "Gravitational fragmentation and formation of giant protoplanets on tens-of-au orbits"

Author: Eduard I. Vorobyov, Vardan Elbakyan

Comments: 16 pages, 16 figures, accepted for publication in Astronomy & Astrophysics

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

[理論]

太陽質量星周りの原始星円盤の重力不安定で発生したクランプの長期間の進化を、高解像流体シミュレーションで調べた。 $\sim 100 \text{AU}$ で作られたクランプは数 10^3 年から数 10^4 年のタイムスケールで内側へ migration する。migration 中にクランプは数十 M_{Jup} の質量を得るが、潮汐トルクによってすぐにエンベロープの大部分を失う。質量の減少によってクランプの migration は数十 AU の位置でかなり減速、または停止して、その後クランプの中心領域が collapse して巨大ガス惑星になる。

6月22日(金曜日)

[1] [arXiv:1806.08263](#)

Title: "High-contrast imaging of HD 163296 with the Keck/NIRC2 L'-band vortex coronagraph"

Author: G. Guidi, G. Ruane, J. P. Williams, D. Mawet, L. Testi, A. Zurlo, O. Absil, M. Bottom, E. Choquet, V. Christiaens, B. Femenía Castellá, E. Huby, A. Isella, J. Kastner, T. Meshkat, M. Reggiani, A. Riggs, E. Serabyn, N. Wallack

Comments: 9 pages, 6 figures. Accepted by MNRAS

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

[理論/観測/実験 etc....]

Comment!!!!

[2] [arXiv:1806.08185](#)

Title: "On the minimum orbital intersection distance computation: a new effective method"

Author: Jose M. Hedo, Manuel Ruiz, Jesus Pelaez

Comments: 13 pages, 10 figures, article accepted for publication in MNRAS

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

[理論/観測/実験 etc....]

Comment!!!!

[3] [arXiv:1806.08147](#)

Title: "Inhibition of the electron cyclotron maser instability in the dense magnetosphere of a hot Jupiter"

Author: Simon Daley-Yates, Ian R. Stevens

Comments: 18 pages, 15 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[4] [arXiv:1806.08119](#)

Title: "Rotation period of the minor planet 2010 WC9"

Author: Ricard Casas, Alfons Diepvens

Comments: 2 pages with 3 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[5] [arxive:1806.08056](#)

Title: "Where does Titan Sand Come From: Insight from Mechanical Properties of Titan Sand Candidates"

Author: Xinting Yu, Sarah M. Hörst, Chao He, Patricia McGuiggan, Bryan Crawford

Comments: 17 pages, 5 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[6] [arxive:1806.08033](#)

Title: "On the Rate of Abiogenesis from a Bayesian Informatics Perspective"

Author: Jingjing Chen, David Kipping

Comments: accepted by Astrobiology

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arxive:1806.07892](#)

Title: "Teetering Stars: Resonant Excitation of Stellar Obliquities by Hot and Warm Jupiters with External Companions"

Author: Kassandra R. Anderson, Dong Lai

Comments: 14 pages, 9 figures, submitted to MNRAS

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

[理論/観測/実験 etc....]

Comment!!!!

[8] [arxive:1806.07890](#)

Title: "Turbulence-driven thermal and kinetic energy in the atmospheres of hot Jupiters"

Author: Taeho Ryu, Michael Zingale, Rosalba Perna

Comments: 15 pages, 16 figures, submitted to MNRAS; comments are welcome

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

[理論/観測/実験 etc....]

Comment!!!!

[9] [arxiv:1806.08305](https://arxiv.org/abs/1806.08305)

Title: "kima: Exoplanet detection in radial velocities"

Author: J. P. Faria, N. C. Santos, P. Figueira, B. J. Brewer

Comments: 3 pages; published in the Journal of Open Source Software; all code available at this [https](https://github.com/kima/kima) URL

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

[理論/観測/実験 etc....]

Comment!!!!

[10] [arxiv:1806.08050](https://arxiv.org/abs/1806.08050)

Title: "Portable Adaptive Optics for exoplanet imaging"

Author: Deqing Ren, Jiangpei Dou, Xi Zhang, Gang Zhao, Yongtian Zhu

Comments: 21 pages, 11 figures, 3 tables, prepare to submit

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

[理論/観測/実験 etc....]

Comment!!!!

[11] [arxiv:1806.08014](https://arxiv.org/abs/1806.08014)

Title: "The Solar Twin Planet Search: The age - chromospheric activity relation"

Author: Diego Lorenzo-Oliveira, Fabrício C. Freitas, Jorge Meléndez, Megan Bedell, Ivan Ramírez, Jacob L. Bean, Martin Asplund, Lorenzo Spina, Stefan Dreizler, Alan Alves-Brito, Luca Casagrande

Comments: 14 pages, 8 figures, 3 Tables. Accepted for publication in A&A. [Abridged abstract]

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

[理論/観測/実験 etc....]

Comment!!!!

[12] [arxiv:1806.07979](https://arxiv.org/abs/1806.07979)

Title: "Measuring the Local ISM along the Sight Lines of the Two Voyager Spacecraft with HST/STIS"

Author: Julia Zachary, Seth Redfield, Jeffrey L. Linsky, Brian E. Wood

Comments: 22 pages, 5 figures, published in ApJ

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

[理論/観測/実験 etc....]

Comment!!!!

[13] [arxiv:1806.07899](https://arxiv.org/abs/1806.07899)

Title: "Improving dynamical mass constraints for intermediate-period substellar companions using Gaia DR2"

Author: Per Calissendorff, Markus Janson

Comments: 5 pages, 4 figures. Accepted for publication in A&A 15/06/2018

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

[理論/観測/実験 etc....]

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