

2018年 2月 第2週 新着論文サーベイ

2月5日(月曜日)

[1] [arxive:1802.00778](#)

Title: "Where the Solar system meets the solar neighbourhood: patterns in the distribution of radiants of observed hyperbolic minor bodies"

Author: C. de la Fuente Marcos, R. de la Fuente Marcos, S. J. Aarseth

Comments: 5 pages, 4 figures. Accepted for publication in MNRAS: Letters

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

[理論/観測]

'Oumuamua について。双曲線軌道は太陽系外からの天体の可能性が高いが、系内の天体でもとりうる。惑星や太陽との散乱で。そのほかオールト雲の天体が他の恒星との接近遭遇で軌道が変わりうる。N 体計算で調べて見たら現在のデータとよく一致した。

[2] [arxive:1802.00766](#)

Title: "Discovery of WASP-174b: Doppler tomography of a near-grazing transit"

Author: L.Y. Temple, C. Hellier, Y. Almléay, D.R. Anderson, F. Bouchy, D.J.A. Brown, A. Burdanov, A. Collier Cameron, L. Delrez, M. Gillon, R. Hall, E. Jehin, M. Lendl, P.F.L. Maxted, L. D. Nielsen, F. Pepe, D. Pollacco, D. Queloz, D. Ségransan, B. Smalley, S. Sohy, S. Thompson, A.H.M.J. Triaud, O.D. Turner, S. Udry, R.G. West

Comments: 7 pages, 6 figures, submitted to MNRAS

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

[観測]

掠る軌道のトランジット惑星 WASP-174b を発見した。周期は 4.23 日で主星は F6V の $[\text{Fe}/\text{H}]=0.09$ 。自転と軌道のズレが 31 度で、恒温の恒星周りほどミスアラインの割合が多い傾向と一致している。grazing のせいで惑星半径は決定できないが、大体 0.7–1.7 木星半径。質量の上限では 1.3 木星質量になる。

[3] [arxive:1802.00566](#)

Title: "Orbital Alignment of Main-Belt Comets"

Author: Yoonyoung Kim, Youngmin JeongAhn, Henry H. Hsieh

Comments: accepted by AJ

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

[観測]

メインベルト彗星の軌道要素の分布を調べて、今後活動していきそうなものを見繕った。現在活動的なメインベルト彗星は木星と近日点の経度が似ていることが分かった。

[4] [arXiv:1802.00464](#)

Title: "Fast and Slow Precession of Gaseous Debris Disks Around Planet-Accreting White Dwarfs"

Author: Ryan Miranda, Roman R. Rafikov

Comments: 7 pages, 4 figures, submitted to ApJL

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

[理論/観測]

白色矮星は惑星系由来の物質で汚染されているけど、金属ガスの小さな円盤があることも分かってきた。こうした系の半数でダブルピークの輝線が見られて、変動も非対称になっている。変動のタイムスケールは大体半減期が1.4年くらいで、大体一般相対論と矛盾しない。しかしながらそれだけ早く減衰する機構はまだ良く分かっていない。今回流体の線形解析で離心率進化を調べた。0.2-0.4 くらいの小さな半径においては一般相対論が支配的で、1-10年くらいの寿命になる。0.2-0.4より大きな半径においては、圧力が支配的になって3-20年くらい掛かる。

[5] [arXiv:1802.00460](#)

Title: "OSSOS: X. How to use a Survey Simulator: Statistical Testing of Dynamical Models Against the Real Kuiper Belt"

Author: S. M. Lawler, J. J. Kavelaars, M. Alexandersen, M. T. Bannister, B. Gladman, J.-M. Petit, C. Shankman

Comments: submitted as a chapter in the "Frontiers in Astronomy and Space Sciences" research topic "From Comets to Pluto and Beyond"

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

[理論]

Outer Solar System Origins Survey とかのサーベイから天体の観測バイアスなどをシミュレートするものを作った。上手く使えばカイパーベルトの構造をもっと理解出来るかも。

[6] [arXiv:1802.00458](#)

Title: "The Deflector Selector: A Machine Learning Framework for Prioritizing Hazardous Object Deflection Technology Development"

Author: Erika R. Nesvold, Adam Greenberg, Nicolas Erasmus, Elmarie van Heerden, J. L. Galache, Eric Dahlstrom, Franck Marchis

Comments: 45 pages, 15 figures, accepted for publication in Acta Astronautica

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

[理論/実験]

地球に衝突しうる天体の計算をするために Deflector Selector というこういう天体のポピュレーションを求めたり軌道を逸らせるかどうかを予測するシステムを考えた。N体計算での結果を機械学習する。

[7] [arXiv:1802.00447](#)

Title:

”Hidden Planetary Friends: On the Stability Of 2-Planet Systems in the Presence of a Distant, Inclined Companion”

Author: Paul Denham, Smadar Naoz, Bao-Minh Hoang, Alexander P. Stephan, Will M. Farr

Comments: 7 pages, 4 figures, 1 table, submitted to MNRAS

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

[理論]

2つ惑星を持つ系の安定性を調べた。伴星の離角と離心率の安定性に対する条件を数値的に調べて実在の系に適応。

[8] [arxiv:1802.00493](#)

Title: ”2MASS J13243553+6358281 is an Early T-Type Planetary-Mass Object in the AB Doradus Moving Group”

Author: Jonathan Gagné, Katelyn N. Allers, Christopher A. Theissen, Jacqueline K. Faherty, Daniella C. Bardalez Gagliuffi, Étienne Artigau

Comments: 9 pages, 4 figures, 1 table. Accepted for publication in the Astrophysical Journal Letters

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

[観測]

AB Doradus MG に属する年齢 150Myr の T2 矮星、2MASS J13243553+6358281 の視線速度と年周視差を測定した。モデルから質量は大体 11–12 木星質量で、事実なら距離が 12.7pc なのでいちばん近い浮遊惑星になる。これまでは L+T の分光連星だと思われていたが、高空間分解観測はされてこなかった。今回表面重力が低いことが分かって、スペクトルタイプで考えられる褐色矮星の明るさよりも J バンドで 0.4 等級暗いことが分かったので、連星っぽくない。有効温度も 1150K 位で、褐色矮星だと 1250K 位なので、やっぱり低い。

2 月 6 日 (火曜日)

[1] [arxiv:1802.01377](#)

Title: ”The nature of the TRAPPIST-1 exoplanets”

Author: Simon L. Grimm, Brice-Olivier Demory, Michaël Gillon, Caroline Dorn, Eric Agol, Artem Burdanov, Laetitia Delrez, Marko Sestovic, Amaury H.M.J. Triaud, Martin Turbet, Émeline Bolmont, Anthony Caldas, Julien de Wit, Emmanuël Jehin, Jérémy Leconte, Sean N. Raymond, Valérie Van Grootel, Adam J. Burgasser, Sean Carey, Daniel Fabrycky, Kevin Heng, David M. Hernandez, James G. Ingalls, Susan Lederer, Franck Selsis, Didier Queloz

Comments: in press in Astronomy & Astrophysics, 24 pages, 13 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[2] [arxive:1802.01352](#)

Title: "Measurements and modeling of absorption by CO₂+H₂O mixtures in the spectral region beyond the CO₂ nu₃-band head"

Author:Ha Tran, Martin Turbet, Pascale Chelin, Xavier Landsheere

Comments: Accepted in Icarus. 16 pages, 3 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[3] [arxive:1802.01340](#)

Title: "Experimental Constraints On The Fatigue of Icy Satellite Lithospheres by Tidal Forces"

Author:Noah P. Hammond, Amy C. Barr, Reid F. Cooper, Tess E. Caswell, Greg Hirth

Comments: 33 pages, 7 figures, accepted for publication in JGR Planets

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

[理論/観測/実験 etc....]

Comment!!!!

[4] [arxive:1802.01293](#)

Title: "Ice loss from the interior of small airless bodies according to an idealized model"

Author:Norbert Schörghofer, Henry H. Hsieh

Comments: submitted to JGR-Planets

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

[理論/観測/実験 etc....]

Comment!!!!

[5] [arxive:1802.01081](#)

Title: "A search for technosignatures from 14 planetary systems in the Kepler field with the Green Bank Telescope at 1.15-1.73 GHz"

Author:Jean-Luc Margot, Adam H. Greenberg, Pavlo Pinchuk, Akshay Shinde, Yashaswi Alladi, Srinivas Prasad MN, M. Oliver Bowman, Callum Fisher, Szilard Gyalay, Willow McKibbin, Brittany Miles, Donald Nguyen, Conor Power, Namrata Ramani, Rashmi Raviprasad, Jesse Santana, Ryan S. Lynch

Comments: 14 pages, 4 figures, submitted

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

[理論/観測/実験 etc....]

Comment!!!!

[6] [arXiv:1802.01024](#)

Title: "On mapping exoplanet atmospheres with high-dispersion spectro-polarimetry. Some model predictions"

Author: Antonio García Muñoz

Comments: Accepted for publication in ApJ. 5 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arXiv:1802.00999](#)

Title: "Suppressed Far-UV Stellar Activity and Low Planetary Mass Loss in the WASP-18 System"

Author: L. Fossati, T. Koskinen, K. France, P. E. Cubillos, C. A. Haswell, A. F. Lanza, I. Pillitteri

Comments: Accepted for publication on AJ

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

[理論/観測/実験 etc....]

Comment!!!!

[8] [arXiv:1802.00920](#)

Title: "Stability of the Euler Resting N-Body Relative Equilibria"

Author: D.J. Scheeres

Comments: Accepted for publication in Celestial Mechanics and Dynamical Astronomy

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

[理論/観測/実験 etc....]

Comment!!!!

[9] [arXiv:1802.00830](#)

Title: "Spectral Evidence for Amorphous Silicates in Least-processed CO Meteorites and Their Parent Bodies"

Author: Margaret M. McAdam, Jessica M. Sunshine, Kieren T. Howard, Conel M. O'D Alexander, Timothy J. McCoy, Schelte J. Bus

Subjects:

Earth and Planetary Astrophysics (astro-ph.EP)

[理論/観測/実験 etc....]

Comment!!!!

[10] [arXiv:1802.01539](#)

Title: "ATLAS Probe: Breakthrough Science of Galaxy Evolution, Cosmology, Milky Way, and the Solar System"

Author: Yun Wang, Massimo Robberto, Mark Dickinson, Henry C. Ferguson, Lynne A. Hillenbrand, Wesley Fraser, Peter Behroozi, Jarle Brinchmann, Andrea Cimatti, Robert Content, Emanuele Daddi, Christopher Hirata, Michael J. Hudson, J. Davy Kirkpatrick, Alvaro Orsi, Mario Ballardini, Robert Barkhouser, James Bartlett, Robert Benjamin, Ranga Chary, Chia-Hsun Chuang, Charlie Conroy, Megan Donahue, Olivier Dore, Peter Eisenhardt, Karl Glazebrook, George Helou, Sangeeta Malhotra, Lauro Moscardini, Jeffrey A. Newman, Zoran Ninkov, Michael Ressler, James Rhoads, Jason Rhodes, Daniel Scolnic, Alice Shapley, Stephen Smee, Francesco Valentino, Risa H. Wechsler

Comments: 42 pages. Submitted to Experimental Astronomy. Comments welcome

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

[理論/観測/実験 etc....]

Comment!!!!

[11] [arXiv:1802.01364](#)

Title: "Classifying and modelling spiral structures in hydrodynamic simulations of astrophysical discs"

Author: D.H. Forgan, F.G. Ramón-Fox, I.A. Bonnell

Comments: 13 pages, 19 figures, accepted to MNRAS

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

[理論/観測/実験 etc....]

Comment!!!!

[12] [arXiv:1802.01335](#)

Title: "Spinup and Disruption of Interstellar Asteroids by Mechanical Torques, and Implications for 1I/2017 U1 ('Oumuamua)'"

Author: Thiem Hoang, Abraham Loeb, A. Lazarian, Jungyeon Cho

Comments: 8 pages, 2 figures, submitted to Astrophysical Journal

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

[理論/観測/実験 etc....]

Comment!!!!

2月7日(水曜日)

[1] [arxiv:1802.02132](#)

Title: "An Analysis of Transiting Hot Jupiters Observed with K2: WASP-55b and WASP-75b"

Author: B. J. M. Clark, D. R. Anderson, C. Hellier, O. D. Turner, T. Močnik

Comments: 6 pages, 6 figures

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

[K2 観測/系外惑星]

K2 の時間分解能の高いデータを使ってすでに惑星が見つかった WASP-55b, WASP75b の主星の光度曲線を再解析。TTV&TDV, 黒点 m 位相変化など色々調査。

WASP75b の方は、 11.2 ± 1.5 日の自転周期が受かった。これを分光観測の結果と合わせる事で、inclination を算出 (41 ± 16 度)

[2] [arxiv:1802.02086](#)

Title: "The Near-Infrared Transmission Spectra of TRAPPIST-1 Planets b, c, d, e, f, and g and Stellar Contamination in Multi-Epoch Transit Spectra"

Author: Zhanbo Zhang, Yifan Zhou, Ben Rackham, Daniel Apai

Comments: 30 pages, 16 figures. Under review by AAS journals; submitted on 1/15/2018. Comments and suggestions are welcome

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

[HST 観測/系外惑星]

TRAPPIST-1 系の近赤外トランジット分光観測 (b-g)。HST/WFC3 を使用。

水の feature などは見えなかったが、逆センスの feature が恒星からのコンタミによって生じてしまっていた。

(例の Nature Astronomy 論文に合わせて出した?)

[3] [arxiv:1802.02075](#)

Title: "Analytic Reflected Lightcurves for Exoplanets"

Author: Hal M. Haggard, Nicolas B. Cowan

Comments: 8 pages, plus 6 pages of mathematical appendices, 4 figures, to be submitted

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

[理論/反射光度曲線]

系外惑星の反射光度曲線を解析的に算出。傾いた軌道を持つものとそうでないものなど。

光度曲線の解析からアルベドマップを出す事が最終目的。

[4] [arxiv:1802.01783](#)

Title: "Large Synoptic Survey Telescope Solar System Science Roadmap"

Author: Megan E. Schwamb, R. Lynne Jones, Steven R. Chesley, Alan Fitzsimmons, Wesley C. Fraser, Matthew J. Holman, Henry Hsieh, Darin Ragozzine, Cristina A. Thomas, David E. Trilling, Michael E. Brown, Michele T. Bannister, Dennis Bodewits, Miguel de Val-Borro, David Gerdes, Mikael Granvik, Michael S. P. Kelley, Matthew M. Knight, Robert L. Seaman, Quan-Zhi Ye, Leslie A. Young

Comments: 7 pages; Feedback welcome

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

[白書/LSST での太陽系小天体研究まとめ]

LSST(Large Synoptic Survey Telescope, 2022-) での太陽系小天体研究見通しのまとめ。

[5] [arxiv:1802.01702](#)

Title: "The Dynamics of Tightly-packed Planetary Systems in the Presence of an Outer Planet: case studies using Kepler-11 and Kepler-90"

Author: A. P. Granados Contreras, A. C. Boley

Comments: 17 pages, accepted for publication in AJ

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

[理論/永年共鳴]

Kepler 11 と Kepler 90 の場合を例に、外側に惑星がある場合の内側惑星系の力学を調査。特に永年共鳴の効果など。

2月8日(木曜日)

[1] [arxiv:1802.02418](#)

Title: "Target selection for a small low-thrust mission to near-Earth asteroids"

Author: Alessio Mereta, Dario Izzo

Comments: submitted to Astrodynamics

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

[NEAs 探査]

NEAs の探査のために、少ない推力で探査機が NEA に近づける軌道を調べ、また探査ターゲット候補天体をピックアップした。

[2] [arXiv:1802.02273](#)

Title: "Why is Interstellar Object 1I/2017 U1 ('Oumuamua) Rocky, Tumbling and Very Prolate?"

Author: J. I. Katz

Comments: 4 pp. 2 figs

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

['Oumuamua の起源]

'Oumuamua では volatiles の蒸発がみられていない。以前属していた恒星系、特に後期主系列星 (巨星の段階) の進化の過程で、主星からの加熱により 'Oumuamua の volatiles が散逸した説を提唱した。

[3] [arXiv:1802.02250](#)

Title: "Atmospheric reconnaissance of the habitable-zone Earth-sized planets orbiting TRAPPIST-1"

Author: J. de Wit, H. R. Wakeford, N. Lewis, L. Delrez, M. Gillon, F. Selsis, J. Leconte, B.-O. Demory, E. Belmont, V. Bourrier, A. J. Burgasser, S. Grimm, E. Jehin, S. M. Lederer, J. Owen, V. Stamenkovic, A. H. M. J. Triaud

Comments: de Wit, Wakeford, Lewis et al. (2018) published in Nature Astronomy on Feb. 05 2018

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

[系外惑星大気]

TRAPPIST-1 の d,e,f,g について近赤外の透過光観測から水素大気の兆候があるか調べたが、d,e,f には少なくとも cloud-free の水素大気はなさそうだ。g はよくわからなかった。

[4] [arXiv:1802.02189](#)

Title: "Mars Thermospheric Variability Revealed by MAVEN EUVM Solar Occultations: Structure at Aphelion and Perihelion, and Response to EUV Forcing"

Author: E. M. B. Thiemann, F. G. Eparvier, S. W. Bougher, M. Dominique, L. Andersson, Z. Girazian, M. D. Pilinski, B. Templeman, B. M. Jakosky

Comments: Submitted to JGR: Planets

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

[火星熱圏]

火星の熱圏 (120-200km) の密度・温度を MAVEN というプロジェクトの観測機を使って、太陽掩蔽による観測を行った。

[5] [arXiv:1802.02157](#)

Title: "Magma ascent in planetesimals: control by grain size"

Author:

Tim Lichtenberg, Tobias Keller, Richard F. Katz, Gregor J. Golabek,
Taras V. Gerya

Comments: 14 pages, 6 figures, 1 table; associated video file at this [http URL](#)

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

[古代の岩石惑星マグマ]

岩石の微惑星の内部は溶解していて、アルミニウム 26 の核反応による加熱で化学的に進化する。マグマの輸送について、岩石-流体がカップルした内部輸送モデルを考え、調べた。結果、シリケートのグレインサイズがマグマの構造に大きく影響し、サイズが 1mm より大きい時、マグマの分離によって半径方向の構造や化学的な層構造を形成することがわかった。それは CAIs(Ca,Al inclusions) から 1Myr ほどで起こるだろう。内側マグマオーシャンモデルとマグマ分離による階層モデルが考えられるが、どちらでも温度逆転が起きていただろう。

2月9日(金曜日)

[1] [arxiv:1802.02923](#)

Title: "Limitation of atmospheric composition by combustion-explosion in exoplanetary atmospheres"

Author: John Lee Grenfell, Stefanie Gebauer, Mareike Godolt, Barbara Stracke,
Ralph Lehmann, Heike Rauer

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

[理論/観測/実験 etc....]

Comment!!!!

[2] [arxiv:1802.02742](#)

Title: "Ground-based lightcurve observation campaign of (25143) Itokawa between 2001 and 2004"

Author: Setsuko Nishihara, Kouhei Kitazato, Masanao Abe, Sunao Hasegawa,
Masateru Ishiguro, Hidenori Nonaka, Yohei Ohba, Tomohiko Ozawa, Yuki Sarugaku, Yasushi Yadoumaru, Chiaki Yoshizumi, Masami Okyudo

Comments: 7 pages, 1 tables, 3 figures, accepted by ASP Conference Series Forthcoming Volume "International Science Symposium On Sample Returns From Solar System Minor Bodies - The First Hayabusa Symposium" (eds. Hajime Yano, Akira Fujiwara, Don Yeomans and Michael Zolensky), 20-24 October 2004, ISAS/JAXA, Sagamihara, Kanagawa, Japan

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

[理論/観測/実験 etc....]

Comment!!!!

[3] [arxiv:1802.02697](#)

Title: "3D Meteoroid Trajectories"

Author: Eleanor K. Sansom, Trent Jansen-Sturgeon, Mark G. Rutten, Phil A. Bland, Hadrien A. R. Devillepoix, Robert M. Howie, Morgan A. Cox, Martin C. Towner, Martin Cupak, Benjamin A. D. Hartig

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

[理論/観測/実験 etc....]

Comment!!!!

[4] [arXiv:1802.02653](#)

Title: "Characterization of dust activity on Mars from MY27 to MY32 by PFS-MEX observations"

Author: Paulina Wolkenberg, Marco Giuranna, Davide Grassi, Alessandro Aronica, Shohei Aoki, Diego Scaccabarozzi, Bortolino Saggin

Comments: in press in Icarus. 47 pages, 15 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[5] [arXiv:1802.02590](#)

Title: "Unlocking CO Depletion in Protoplanetary Disks I. The Warm Molecular Layer"

Author: Kamber R. Schwarz, Edwin A. Bergin, L. Ilse Cleeves, Ke Zhang, Karin I. Öberg, Geoffrey A. Blake, Dana Anderson

Comments: 23 pages, 25 figures, 5 tables, accepted for publication in ApJ

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

[理論/観測/実験 etc....]

Comment!!!!

[6] [arXiv:1802.02582](#)

Title: "OGLE-2017-BLG-1434Lb: Eighth $q < 1 * 10^{-4}$ Mass-Ratio Microlens Planet Confirms Turnover in Planet Mass-Ratio Function"

Author: A. Udalski, Y.-H. Ryu, S. Sajadian, A. Gould, P. Mróz, R. Poleski, M. K. Szymański, J. Skowron, I. Soszyński, S. Kozłowski, P. Pietrukowicz, K. Ulaczyk, M. Pawlak, K. Rybicki, P. Iwanek, M. D. Albrow, S.-J. Chung, C. Han, K.-H. Hwang, Y. K. Jung, I.-G. Shin, Y. Shvartzvald, J. C. Yee, W. Zang, W. Zhu, S.-M. Cha, D.-J. Kim, H.-W. Kim, S.-L. Kim, C.-U. Lee, D.-J. Lee, Y. Lee, B.-G. Park, R. W. Pogge, V. Bozza, M. Dominik,

C. Helling, M. Hundertmark, U.G. Jørgensen, P. Longa-Peña, S. Lowry, M. Burgdorf, J. Campbell-White, S. Ciceri, D. Evans, R. Figuera Jaimes, Y.I. Fujii, L.K. Haikala, T. Henning, T.C. Hinse, L. Mancini, N. Peixinho, S.Rahvar, M. Rabus, J. Skottfelt, C. Snodgrass, J. Southworth, C. von Essen

Comments: 53 pages, 16 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arXiv:1802.02977](#)

Title: "The ALMA-PILS survey: The sulphur connection between protostars and comets: IRAS 16293-2422 B and 67P/Churyumov-Gerasimenko"

Author: Maria N. Drozdovskaya, Ewine F. van Dishoeck, Jes K. Jørgensen, Ursina Calmonte, Matthijs H. D. van der Wiel, Audrey Coutens, Hannah Calcutt, Holger S. P. Müller, Per Bjerke, Magnus V. Persson, Susanne F. Wampfler, Kathrin Altwegg

Comments: Accepted for publication in MNRAS; 47 pages, 43 figures, 6 tables

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:1802.02967](#)

Title: "The chemical connection between 67P/C-G and IRAS 16293-2422"

Author: Maria Nikolayevna Drozdovskaya, Ewine F. van Dishoeck, Martin Rubin, Jes Kristian Jørgensen, Kathrin Altwegg

Comments: To appear in "Astrochemistry VII – Through the Cosmos from Galaxies to Planets", proceedings of the IAU Symposium No. 332, 2017, Puerto Varas, Chile. M. Cunningham, T. Millar and Y. Aikawa, eds. (6 pages)

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!!!!

[9] [arXiv:1802.02946](#)

Title: "The CARMENES search for exoplanets around M dwarfs - Photospheric parameters of target stars from high-resolution spectroscopy"

Author:V.M. Passegger, A. Reiners, S.V. Jeffers, S. Wende-von Berg, P. Schoefer, J.A. Caballero, A. Schweitzer, P.J. Amado, V.J.S. Bejar, M. Cortes-Contreras, A.P. Hatzes, M. Kuerster, D. Montes, S. Pedraz, A. Quirrenbach, I. Ribas, W. Seifert

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

[理論/観測/実験 etc....]

Comment!!!!

[10] [arxive:1802.02576](#)

Title: "The Chemical Homogeneity of Sun-like Stars in the Solar Neighborhood"

Author:Megan Bedell, Jacob L. Bean, Jorge Melendez, Lorenzo Spina, Ivan Ramirez, Martin Asplund, Alan Alves-Brito, Leonardo dos Santos, Stefan Dreizler, David Yong, TalaWanda Monroe, Luca Casagrande

Comments: ApJ submitted; full table data available in source files

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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