

2017年 3月 第2週 新着論文サーベイ

3月6日(月曜日)

[1] [arxiv:1703.00970](#)

Title: "The shadow knows: using shadows to investigate the structure of the pre-transitional disk of HD 100453"

Author: Zachary C. Long, Rachel B. Fernandes, Michael Sitko, Kevin Wagner, Takayuki Muto, Jun Hashimoto, Katherine Follette, Carol A. Grady, Misato Fukagawa, Yasuhiro Hasegawa, Jacques Kluska, Stefan Kraus, Satoshi Mayama, Michael W. McElwain, Daehyeon Oh, Motohide Tamura, Taichi Uyama, John P. Wisniewski, Yi Yang

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

[理論/観測/実験 etc....]

HD 100453 の偏光強度撮像により、inner gap (9 – 18 au) と、二つのスパイラルアームを伴う outer disk (18 – 39 au)、方位角方向の局所的な dark features が見つかった。その dark features から内側にも disk があると考えられ、外側の disk と平行ではないようだ。(45°)

[2] [arxiv:1703.00928](#)

Title: "Orbital Evolution, Activity, and Mass Loss of Comet C/1995 O1 (Hale-Bopp). I. Close Encounter with Jupiter in Third Millennium BCE and Effects of Outgassing on the Comet's Motion and Physical Properties"

Author: Zdenek Sekanina, Rainer Kracht

Comments: 49 pages, 28 tables, 16 figures

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

[理論/観測/実験 etc....]

comet C/1995 O1 について重力以外の効果から軌道や物理量を調べた。

[3] [arxiv:1703.00904](#)

Title: "Change in General Relativistic Precession Rates due to Lidov-Kozai oscillations in Solar System"

Author: Aswin Sekhar, David Asher, Stephanie Werner, Jeremie Vaubaillon, Gongjie Li

Comments: 10 pages, 5 tables, 12 figures; Accepted in MNRAS Main Journal

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

[理論/観測/実験 etc....]

一般相対論的歳差が支配的な段階と Lidov-Kozai メカニズムが支配的な段階に連続な接続期があることがわかった。その中間期にはそれらが共存し、Lidov-Kozai 的な振動が一般相対論的歳差の rate を変化させる場合があることもわかった。

[4] [arxiv:1703.01189](#)

Title: "Periodic and quasi-periodic attractors for the spin-orbit evolution of Mercury with a realistic tidal torque"

Author: Michele Bartucelli, Jonathan Deane, Guido Gentile

Comments: 32 pages, 8 figures, 5 tables

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

[理論/観測/実験 etc....]

彗星の spin-orbit 共鳴について、より現実的なモデルをたてて数値計算および解析を行った。

[5] [arxiv:1703.01084](#)

Title: "Seismic inference of 57 stars using full-length Kepler data sets"

Author: Orlagh Creevey, Travis Metcalfe, David Salabert, Savita Mathur, Mathias Schultheis, Rafael A. García, Frédéric Thévenin, Michaël Bazot, Haiying Xu

Comments: 4-page proceedings from Seismology of the Sun and the Distant Stars 2016, TASC/KASC, Azores, Portugal, corrected references in v2

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....]

57 のケプラー星から得られたデータセットから星震学を用いて、星の視差、mixing-length parameter、観測された物理量の年齢などについて示した。

[6] [arxiv:1703.01023](#)

Title: "Project 1640 Observations of Brown Dwarf GJ 758 B"

Author: R. Nilsson, A. Veicht, P. A. Giorla Godfrey, E. L. Rice, J. Aguilar, L. Pueyo, L. C. Roberts Jr., R. Oppenheimer, D. Brenner, S. H. Luszcz-Cook, E. Bacchus, C. Beichman, R. Burruss, E. Cady, R. Dekany, R. Fergus, L. Hillenbrand, S. Hinkley, D. King, T. Lockhart, I. R. Parry, A. Sivaramakrishnan, R. Soummer, G. Vasisht, C. Zhai, N. T. Zimmerman

Comments: Accepted for publication in ApJ, 13 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....]

ある褐色矮星を別波長で新しく観測し、大気モデルをたててフィットした話。

3月7日(火曜日)

[1] [arXiv:1703.01857](#)

Title: "On the origin of the wide-orbit circumbinary giant planet HD 106906: A dynamical scenario and its impact on the disk"

Author: L. Rodet, H. Beust, M. Bonnefoy, A.-M. Lagrange, P. A. B. Galli, C. Ducourant, R. Teixeira

Comments: 16 pages, 14 figures, 4 tables. Accepted for publication in A&A

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

[理論/観測/実験 etc....]

Comment!!!!

[2] [arXiv:1703.01824](#)

Title: "Dynamical Lifetimes of Asteroids in Retrograde Orbits"

Author: Paweł Kankiewicz, Ireneusz Włodarczyk

Comments: Accepted 2017 March 2. Received 2017 March 1; in original form 2016 September 26

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

[理論/観測/実験 etc....]

Comment!!!!

[3] [arXiv:1703.01817](#)

Title: "The GTC exoplanet transit spectroscopy survey. VI. A spectrally-resolved Rayleigh scattering slope in GJ 3470b"

Author: G. Chen, E. W. Guenther, E. Palle, L. Nortmann, G. Nowak, S. Kunz, H. Parviainen, F. Murgas

Comments: 12 pages, 11 figures, accepted for publication in A&A

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:1703.01742](#)

Title: "Terrestrial Planet Formation: Constraining the Formation of Mercury"

Author: Patryk Sofia Lykawka, Takashi Ito

Comments: 21 pages, 5 figures, 4 tables. Accepted for publication in The Astrophysical Journal

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

[理論/観測/実験 etc....]

Comment!!!!

[5] [arXiv:1703.01595](#)

Title: "Creep stability of the proposed AIDA mission target 65803 Didymos: I. Discrete cohesionless granular physics model"

Author: Yun Zhang, Derek C. Richardson, Olivier S. Barnouin, Clara Maurel, Patrick Michel, Stephen R. Schwartz, Ronald-Louis Ballouz, Lance A. M. Benner, Shantanu P. Naidu, Junfeng Li

Comments: 66 pages, 24 figures, submitted to Icarus on 25/Aug/2016

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

[理論/観測/実験 etc....]

Comment!!!!

[6] [arXiv:1703.01512](#)

Title: "The evolution of protoplanetary disks from their taxonomy in scattered light: Group I vs Group II"

Author: Antonio Garufi, Gwendolyn Meeus, Myriam Benisty, Sascha Quanz, Andrea Banzatti, Mihkel Kama, Hector Canovas, Carlos Eiroa, Hans Martin Schmid, Tomas Stolker, Adriana Pohl, Elisabetta Rigliaco, Francois Menard, Micheal Meyer, Roy van Boekel, Carsten Dominik

Comments: 16 pages, 7 figures, accepted for publication by A&A

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

[理論/観測/実験 etc....]

Comment!!!!

[7] [arXiv:1703.01491](#)

Title: "Radio and the 1999 UK Total Solar Eclipse"

Author: Ruth A. Bamford

Comments: 41 pages, 33 Figures, government funded research final report, unclassified

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

[理論/観測/実験 etc....]

Comment!!!!

[8] [arXiv:1703.01430](#)

Title: "Two massive rocky planets transiting a K-dwarf 6.5 parsecs away"

Author: Michael Gillon, Brice-Olivier Demory, Valerie Van Grootel, Fatemeh Motalebi, Christophe Lovis, Andrew Collier Cameron, David Charbonneau,

David Latham, Emilio Molinari, Francesco A. Pepe, Damien Segransan, Dimitar Sasselov, Stephane Udry, Michel Mayor, Giuseppina Micela, Giampaolo Piotto, Alessandro Sozzetti

Comments: 16 pages

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

[理論/観測/実験 etc....]

Comment!!!!

[9] [arxiv:1703.01424](#)

Title: "Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1"

Author: Michael Gillon, Amaury H. M. J. Triaud, Brice-Olivier Demory, Emmanuel Jehin, Eric Agol, Katherine M. Deck, Susan M. Lederer, Julien de Wit, Artem Burdanov, James G. Ingalls, Emeline Bolmont, Jeremy Leconte, Sean N. Raymond, Franck Selsis, Martin Turbet, Khalid Barkaoui, Adam Burgasser, Matthew R. Burleigh, Sean J. Carey, Aleksander Chaushev, Chris M. Copperwheat, Laetitia Delrez, Catarina S. Fernandes, Daniel L. Holdsworth, Enrico J. Kotze, Valerie Van Grootel, Yaseen Almleaky, Zouhair Benkhaldoun, Pierre Magain, Didier Queloz

Comments: 27 pages

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

[理論/観測/実験 etc....]

Comment!!!!

[10] [arxiv:1703.01407](#)

Title: "Discovery of a satellite of the large trans-Neptunian object (225088) 2007OR10"

Author: Csaba Kiss, Gábor Marton, Anikó Farkas-Takács, John Stansberry, Thomas Müller, József Vinkó, Zoltán Balog, Jose-Luis Ortiz, András Pál

Comments: Accepted for publication in Astrophysical Journal Letters; 7 pages, 4 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[11] [arxiv:1703.01449](#)

Title: "Accurate parameters for HD 209458 and its planet from HST spectrophotometry"

Author: Carlos del Burgo, Carlos Allende Prieto

Comments: 10 pages, 2 figures, published in MNRAS

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:1703.01301](#)

Title: "A Physical Model-based Correction for Charge Traps in the Hubble Space Telescope's Wide Field Camera 3 Near-IR Detector and Applications to Transiting Exoplanets and Brown Dwarfs"

Author: Yifan Zhou, Dániel Apai, Ben W. P. Lew, Glenn Schneider

Comments: 16 pages, 13 figures, accepted to Astronomical Journal

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

[理論/観測/実験 etc....]

Comment!!!!

3月8日(水曜日)

[1] [arxiv:1703.02447](#)

Title: "The Effect of Multiple Heat Sources on Exomoon Habitable Zones"

Author: Vera Dobos, René Heller, Edwin L. Turner

Comments: accepted for publication in A&A, 8 pages, 4 figures

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

[理論]

ガス惑星周りの火星から地球サイズの月において、潮汐、恒星からの輻射、惑星からの放射と熱伝導?を熱源として液体の水を持ちうる条件を探った。離心率が0.001から0.01の月の場合、太陽型周りでは3-5AU、M3 dwarf周りでは0.4-0.6AUで、潮汐熱が支配的なエネルギー源になる。後者はあつたら観測可能かもだけど、力学的に不安定。

[2] [arxiv:1703.02295](#)

Title: "Assessment of different formation scenarios for the ring system of (10199) Chariklo"

Author: M. D. Melita, R. Duffard, J. L. Ortiz, A. Campo-Bagatin

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

[理論]

ケンタウルス族の小天体 Chariklo 周りの ring の形成メカニズムを複数考えた。Chariklo の臨界距離?に衛星が来て崩壊してできたシナリオ、三体衝突でできたシナリオ、(何かが衝突して) クレーターから吹き出したものでできたシナリオ、リングの位置に元々あった天体にバックグラウンドの天体がぶつかってできたシナリオを考えて、タイムスケールなどを計算、比較した。

[3] [arxiv:1703.02056](#)

Title: "Transiting Planets with LSST III: Detection Rate per Year of Operation"

Author: Savannah R. Jacklin, Michael B. Lund, Joshua Pepper, Keivan G. Stassun

Comments: 6 pages, 1 table, 8 figures, Accepted for publication in the Astronomical Journal

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

[シミュレーション]

LSST のサーベイによってどれだけのトランジットの惑星の detection rate が期待されるかという論文。観測初めて、徐々に検出は増えていって、4-6 年で、>10 % になるらしいが、ここでいう、detection rate が何を表すのかがぱっと見ではよくわからなかったためよくわからなかった。(LSST の 10 年間のミッションで見つかる惑星数に対する割合?)

[4] [arxiv:1703.02522](#)

Title: "Identification of Young Stellar Variables with KELT for K2 I: Campaign 13 Taurus"

Author: Joseph E. Rodriguez, Megan Ansdell, Ryan J. Oelkers, Phillip A. Cargile, Eric Gaidos, Ann Marie Cody, Daniel J. Stevens, David James, Thomas G. Beatty, Robert J. Siverd, Michael B. Lund, Rudolf B. Kuhn, B. Scott Gaudi, Joshua Pepper, Keivan G. Stassun

Comments: 14 pages, 7 figure, 2 tables, Submitted to the AAS Journals

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

[観測]

K2C13 で、Taurus-Auriga という、牡牛座の若い星団 (? association) を 2017 年の春から観測するらしい。それに先駆けて、Kilodegree Extremely Little Telescope (KELT) という地上望遠鏡のサーベイでその星団に見つかった変光星らのライトカーブをリリースしたらしい。ベースラインを延長できる。

[5] [arxiv:1703.02395](#)

Title: "Science cases for a visible interferometer"

Author: Philippe Stee, France Allard, Myriam Benisty, Lionel Bigot, Nicolas Blind, Henri Boffin, Marcelo Borges Fernandes, Alex Carciofi, Andrea Chiavassa, Orlagh Creevey, Pierre Cruzalebes, Willem-Jan de Wit, Armando Domiciano de Souza, Martin Elvis, Nicolas Fabas, Daniel Faes, Alexandre Gallenne, Carlos Guerrero Pena, Michel Hillen, Sebastian Hoenig, Michael Ireland, Pierre Kervella, Makoto Kishimoto, Nadia Kostogryz, Stefan Kraus, Antoine Labeyrie, Jean-Baptiste Le Bouquin, Agnès Lebre, Roxanne Ligi, Alessandro Marconi, Thomas Marsh, Anthony Meilland, Florentin Millour, John Monnier, Denis Mourard, Nicolas Nardetto, Keiichi Ohnaka, Claudia Paladini, Karine Perraut, Guy Per-

rin, Pascal Petit, Romain Petrov, Gail Schaefer, Jean Schneider, Denis Shulyak, Michal Simon, Ferreol Soulez, Danny Steeghs

Comments: White Paper prospective. This book is dedicated to the memory of our colleague Olivier Chesneau who passed away at the age of 41. v2 includes some corrections to text

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

[white paper]

可視における干渉系に関する本? どうやら Olivier Chesneau という 41 歳で亡くなられた同志のために書かれたものらしい。

3 月 9 日 (木曜日)

[1] [arxiv:1703.02670](#)

Title: "The Spherical Bolometric Albedo of Planet Mercury"

Author: Anthony Mallama

Comments: 20 pages, 5 figures, 1 table

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

[観測?]

水星の bolometric なアルベドには、今まで各観測や論文によって差があったりした。その差の解釈として、水星の反射率を詳しく考えたい。

[2] [arxiv:1703.02656](#)

Title: "Exoplanet Characterization by Multi-Observatory Transit Photometry with TESS and CHEOPS"

Author: E. Gaidos, D. Kitzmann, K. Heng

Comments: MNRAS, in press

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

[理論/観測]

将来 TESS によるトランジット観測で、数千の惑星が検出できると見込まれる。それらの惑星の散乱光・熱放射の寄与の割合や惑星大気によるレイリー散乱など、詳細な情報を取得したい。ここでは、TESS のフォローアップを行う Characterizing Exoplanets Satellites (CHEOPS) 計画で、期待される惑星の詳細な情報を得るために必要な精度を定量的に評価した。

[3] [arxiv:1703.02630](#)

Title: "Probing the atmosphere of a sub-Jovian planet orbiting a cool dwarf"

Author: Elyar Sedaghati, Henri M. J. Boffin, Laetitia Delrez, Michaël Gillon, Szilard Csizmadia, Alexis M. S. Smith, Heike Rauer

Comments: 13 pages, 11 figures, 3 tables. Submitted to MNRAS. Version after the first review

Subjects:

Earth and Planetary Astrophysics (astro-ph.EP)

[観測]

VLT の FORS2 で WASP-80b の、波長域 0.74-1.0 μ m の透過分光を行った。WASP-80 は活動性の高い星で、ライトカーブに系統的な誤差がのるが、Gaussian Process と呼ばれる手法を使い補正した。結果、大気温度 = 825K、金属量は sub-solar 程度で、大気に分子が少ないということがわかった。

[4] [arxiv:1703.02607](#)

Title: "Integral Field Spectroscopy of the Low-Mass Companion HD984B with the Gemini Planet Imager"

Author: Mara Johnson-Groh, Christian Marois, Robert J. De Rosa, Eric L. Nielsen, Julien Rameau, Sarah Blunt, Jeffrey Vargas, S. Mark Ammons, Vanessa P. Bailey, Travis S. Barman, Joanna Bulger, Jeffrey K. Chilcote, Tara Cotten, Rene Doyon, Gaspard Duchene, Michael P. Fitzgerald, Kate B. Follette, Stephen Goodsell, James R. Graham, Alexandra Z. Greenbaum, Pascale Hibon, Li-Wei Hung, Patrick Ingraham, Paul Kalas, Quinn M. Konopacky, James E. Larkin, Bruce Macintosh, Jerome Maire, Franck Marchis, Mark S. Marley, Stanimir Metchev, Maxwell A. Millar-Blanchaer, Rebecca Oppenheimer, David W. Palmer, Jenny Patience, Marshall Perrin, Lisa A. Poyneer, Laurent Pueyo, Abhijith Rajan, Fredrik T. Rantakyro, Dmitry Savransky, Adam C. Schneider, Anand Sivaramakrishnan, Inseok Song, Remi Soummer, Sandrine Thomas

Comments: Accepted for publication in The Astronomical Journal

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

[観測]

Gemini Planet Imager で HD 984 の低質量伴星について新たに観測を行った。アーカイブデータも取り入れて議論した結果、軌道長半径 = 18AU、離心率 = 0.18、軌道傾斜角 = 118° 程度であると見積もれた。スペクトルデータを高周波数側と低周波数側に分けて行う新たな解析法？を施した結果、温度は約 2700K、質量は 34-95Mj 程度であるとわかった。

[5] [arxiv:1703.02562](#)

Title: "Evidence for abnormal H

α

variability during near-transit observations of HD 189733 b"

Author: P. Wilson Cauley, Seth Redfield, Adam G. Jensen

Comments: 9 pages, 8 figures, accepted to AJ on 03/06/2017

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

[観測]

トランジット観測の際に、星活動に由来する変光の特徴づけは重要である。ホットジュピターをもつ HD 189733 のトランジットを起こしていない期間の H α 線の変動を追跡することで、中心天体由来の変動成分がどれくらいか見積

もった。

[6] [arXiv:1703.02540](#)

Title: "Exozodiacal clouds: Hot and warm dust around main sequence stars"

Author: Quentin Kral, Alexander V. Krivov, Denis Defrere, Rik van Lieshout, Amy Bonsor, Jean-Charles Augereau, Philippe Thebault, Olivier Absil, Steve Ertel

Comments: submitted to Astronomical Review

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

[レビュー]

恒星の 20

[7] [arXiv:1703.02957](#)

Title: "Imaging a Central Ionized Component, a Narrow Ring, and the CO Snow-line in the Multi-Gapped Disk of HD 169142"

Author: Enrique Macias, Guillem Anglada, Mayra Osorio, Jose M. Torrelles, Carlos Carrasco-Gonzalez, Jose F. Gomez, Luis F. Rodriguez, Anibal Sierra

Comments: 12 pages, 6 figures, accepted for publication in ApJ

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

[観測]

Herbig Ae 星周りの pre-transitional disk (HD 169142) を Very Large Array で、7mm、9mm、3cm の 3 波長で観測を行った。結果、7mm と 9mm で、中心から半径 25AU の部分に明るいうらみを検出し、これはギャップの内縁に対応すると思われる。このギャップは、非一様な構造を見せており、形成中の惑星と円盤の相互作用が起きている可能性がある。さらに 85AU の領域に新たなギャップを検出した。ALMA のアーカイブデータから、この半径は CO 分子の氷線に対応していることもわかった。この結果は氷線付近のダスト成長がギャップ形成に関係があることを示唆する。また、フラックスの密度や index から、free-free 放射が起きていることがわかった。これは inner disk の photo-ionization で起きている可能性がある。

[8] [arXiv:1703.02592](#)

Title: "Giant ripples on comet 67P/Churyumov-Gerasimenko sculpted by sunset thermal wind"

Author: P. Jia, B. Andreotti, P. Claudin

Comments: 37 pages, 13 figures, 1 table

Subjects: Soft Condensed Matter (cond-mat.soft); Earth and Planetary Astrophysics (astro-ph.EP)

[理論]

チュリモフゲラシメンコ彗星の、砂丘状の滑らかな表面がどのようにして形成されたか、考察している。

3月10日(金曜日)

[1] [arxiv:1703.03169](#)

Title: "The Influences of Forming Companions on the Spectral Energy Distributions of Stars with Circumstellar Discs"

Author: Olga V. Zakhozhay

Comments: Accepted for publication in PASA

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

[理論/観測/実験 etc....]

Comment!!!!

[2] [arxiv:1703.03085](#)

Title: "Thermally induced stresses in boulders on airless body surfaces, and implications for rock breakdown"

Author: Jamie L. Molaro, Shane Byrne, Jia-Liang Le

Comments: 31 pages, 12 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[3] [arxiv:1703.03053](#)

Title: "Impact Erosion Model for Gravity-Dominated Planetesimals"

Author: H. Genda, T. Fujita, H. Kobayashi, H. Tanaka, R. Suetsugu, Y. Abe

Comments: Accepted for publication in Icarus, 41 pages, 16 figures

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

[理論/観測/実験 etc....]

Comment!!!!

[4] [arxiv:1703.02994](#)

Title: "Polynomial Apodizers for Centrally Obscured Vortex Coronagraphs"

Author: Kevin Fogarty, Laurent Pueyo, Johan Mazoyer, Mamadou N'Diaye

Comments: 18 pages, 12 figures, submitted to ApJ

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

[理論/観測/実験 etc....]

Comment!!!!

[5] [arxiv:1703.02974](#)

Title: "Constraining proto-planetary disc evolution using accretion rate and disc mass measurements: the usefulness of the dimensionless accretion parameter"

Author: Giovanni P. Rosotti, Cathie J. Clarke, Carlo F. Manara, Stefano Facchini

Comments: 9 pages, 8 figures. 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!!!!

Nature

ない

Science

ない