

Kazumasa Ohno

Last update: 11/8, 2022

Gender: Male Nationality: Japan

Born: 15 July 1992 in Ibaraki-prefecture, Japan

Address: Department of Astronomy and Astrophysics, University of California, Santa Cruz, 1156 High Street, Santa Cruz, CA 95064, US

E-mail: kono2@ucsc.edu, Phone: +1-831-251-0568Website: <https://people.ucsc.edu/~kono2/>

Employment

- Feb. 2021–Present: JSPS Overseas Research Fellow, University of California Santa Cruz
(Advisors: Jonathan Fortney & Xi Zhang, Astronomy and Astrophysics)
- Apr. 2020–Jan. 2021: Postdoctoral scholar, Tokyo Institute of Technology
(Advisor: Satoshi Okuzumi, Department of Earth and Planetary Sciences)
- Apr. 2018–Mar. 2020: JSPS Research Fellow (DC2), Tokyo Institute of Technology
(Advisor: Satoshi Okuzumi, Department of Earth and Planetary Sciences)

Education

- Apr. 2017–Mar.2020: Department of Earth and Planetary Sciences, Tokyo Institute of Technology
(PhD thesis: “Theoretical modeling of mineral cloud formation on super-Earths”)
(Advisor: Satoshi Okuzumi, Doctor of Science)
- Apr. 2015–Sep.2017: Department of Earth and Planetary Sciences, Tokyo Institute of Technology
(Master thesis: “Modeling Dust Clouds in Exoplanets: Implications for Atmospheric Metallicity”)
(Advisor: Satoshi Okuzumi, Master of Science)
- Apr. 2011–Mar. 2015: Department of Earth and Planetary Sciences, Tokyo Institute of Technology
(Bachelor thesis: “1D Cloud Model for Earth-like Planets and its Steady State Solution”)
(Advisor: Satoshi Okuzumi, Bachelor of Science)
- Apr. 2008–Mar. 2011: Atsugi high school

Fellowships & Awards

- | | |
|---------------------|---|
| Feb 2021–Jan 2023 | JSPS Overseas Research Fellowships |
| Jul. 2018 | JpGU Outstanding Student Presentation Award |
| Apr. 2018–Mar. 2020 | JSPS Research Fellow (DC2), Tokyo Institute of Technology
(2,100,000 JPY, KAKENHI Grant Number 18J14557) |
| Dec. 2017 | Grant-in-aid from Foundation for Promotion of Astronomy (49,811 JPY) |
| Jun. 2016–Jul. 2016 | Kavli Summer Program in Astrophysics 2016 Student Fellow |

Teaching Experience

- | | |
|---------------------|---|
| Dec. 2017–Feb. 2018 | Teaching assistant, Electromagnetism |
| Jun. 2017–Aug. 2017 | Teaching assistant, Mechanics |
| Oct. 2016–Dec. 2016 | Teaching assistant, Computational Planetary Science |
| Oct. 2015–Feb. 2016 | Teaching assistant, Computational Planetary Science |

Research Interest

- Cloud and haze formation in planetary atmospheres
- Observational characterization of exoplanetary atmospheres
- Grain growth in protoplanetary disks and planet formation

Programing Skills

Programming in FORTRAN 77/90, C, Python, MATLAB, HTML, Gnuplot, LaTeX

Professional Affiliation

The Astronomical Society of Japan, The Japanese Society for Planetary Sciences, Japan Geoscience Union, American Astronomical Society, SPICA Collaboration team, Referees (Astronomy & Astrophysics, The Astrophysical Journal)

References

- Dr. Satoshi Okuzumi, Professor, Tokyo Institute of Technology, email: okuzumi_at_eps.sci.titech.ac.jp
- Dr. Xi Zhang, Associate Professor, University of California Santa Cruz, email: xiz_at_ucsc.edu
- Dr. Jonathan Fortney, Professor, University of California Santa Cruz, email: jfortney_at_ucsc.edu

Publications (229 total citations & h-index 9 according to NASA/ADS)

Submitted papers:

- [*] **Ohno, K.**, & Fortney J, J. (2022) “Nitrogen as a Tracer of Giant Planet Formation: Complexities in Diagnosing the Bulk Nitrogen Abundance from Observations of Ammonia in Transiting Exoplanet Atmospheres”
- [*] Feinstein, A., Radica, M., Welbanks, L., Murray, C., **Ohno, K.**, et al. (2022) “JWST Early Release Science: Exoplanet transit spectroscopy with NIRISS-SOSS”
- [*] Alderson, L., et al. (2022) “JWST Early Release Science: WASP-39b transit spectroscopy with NIRSpec G395H”
- [*] Ahrer, E., et al. (2022) “JWST Early Release Science: Exoplanet transit spectroscopy with NIRCam”
- [*] Rustamkulov, Z., et al. (2022) “The Broadband Transmission Spectrum of WASP-39b from JWST NIRSpec PRISM Observations”

Lead-author papers:

- [11] **Ohno, K.**, Thao, P., Mann W. A., & Fortney J, J. (2022) “A Circumplanetary Dust Ring May Explain the Extreme Spectral Slope of the 10 Myr Young Exoplanet K2-33b”, ApJL, in press
- [10] **Ohno, K.** & Fortney J, J. (2022) “A Framework for Characterizing Transmission Spectra of Exoplanets with Circumplanetary Rings”, ApJ, 930, 50
- [9] **Ohno, K.** & Tanaka A, Y. (2021) “Grain Growth in Escaping Atmospheres: Implications for the Radius Inflation of Super-puffs”, ApJ, 920, 124
- [8] **Ohno, K.** & Ueda, T. (2021) “Jupiter’s “cold” formation in the protosolar disk shadow: An explanation for the planet’s uniformly enriched atmosphere”, A&A, 651, L2 (**A&A highlighted paper**, <https://www.aanda.org/2021-highlights/2236>)
- [7] **Ohno, K.** Zhang, X., Tazaki, R., & Okuzumi, S.. (2021) “Haze Formation on Triton”, ApJ, 912, 37
- [6] **Ohno, K.** & Kawashima, Y. (2020) “Super-Rayleigh Slopes in Transmission Spectra of Exoplanets Generated by Photochemical Haze”, ApJL, 895, 47
- [5] **Ohno, K.**, Okuzumi, S., & Tazaki, R. (2020) “Clouds of Fluffy Aggregates: How They Form in Exoplanetary Atmospheres and Influence Transmission Spectra”, ApJ, 891, 2
- [4] **Ohno, K.** & Zhang, X. (2019) “Atmospheres on Nonsynchronized Eccentric-tilted Exoplanets II: Thermal Light Curves”, ApJ, 874, 2
- [3] **Ohno, K.** & Zhang, X. (2019) “Atmospheres on Nonsynchronized Eccentric-tilted Exoplanets I: Dynamical Regimes”, ApJ, 874, 1
- [2] **Ohno, K.** & Okuzumi, S. (2018) “Microphysical Modeling of Mineral Clouds in GJ1214 b and GJ436 b: Predicting Upper Limits on the Cloud-Top Height”, ApJ, 859, 34
- [1] **Ohno, K.** & Okuzumi, S. (2017) “A Condensation-Coalescence Cloud Model for Exoplanetary Atmospheres: Formulation and Test Applications to Terrestrial and Jovian Clouds”, ApJ, 835, 261

Co-author papers:

- [7] The JWST Transiting Exoplanet Community Early Release Science Team. (2022) “Identification of carbon dioxide in an exoplanet atmosphere”, *Nature*, 1
- [6] Notsu, S., **Ohno, K.**, Ueda, T., Walsh, C., Eistrup, C. & Nomura, H. (2022) “The Molecular Composition of Shadowed Protosolar Disk Midplanes beyond the Water Snowline”, *ApJ*, 936, 188
- [5] Dymont, A (co-advisor), Yu, X., **Ohno, K.**, Zhang, X., Fortney J. J., & Thorngren, D. (2022) “Cleaning our Hazy Lens: Statistical Trends in Transmission Spectra of Warm Exoplanets”, *ApJ*, 937, 2
- [4] Alam K. M., Kirk J., Dressing D. C., Lopez-Morales, M., **Ohno, K.**, Gao, P., Akisanmi, B., Santerne, A., Grouffal, S., Adibekyan, V., Barros C. C. S., Buchhave A. L., Crossfield J. M. I., Dai, F., Deleuil, M., Gialone, S., Lillo-Box, J., Marley, M., Mayo, W. A., Mortier, A., Santos C. N., Sousa, S., Turtelboom, E., Wheatley, P., Vanderburg M. A. (2022) "The First Near-Infrared Transmission Spectrum of HIP 41378 f, a Low-Mass Temperate Jovian World in a Multi-Planet System", *ApJL*, 927, 5 (**AAS Nova Research Highlights**, <https://aasnova.org/2022/03/09/first-look-at-an-unusual-exoplanets-atmosphere/>)
- [3] Okuya, A., Okuzumi, S, **Ohno, K.**, & Hirano, T. (2020) “Constraining the Bulk Composition of Disintegrating Exoplanets Using Combined Transmission Spectra from JWST and SPICA”, *ApJ* 901, 171
- [2] Arakawa, S. & **Ohno, K.** (2020) “Thermal inertias of pebble-pile comet 67P/Churyumov-Gerasimenko”, *MNRAS*, 497, 1166
- [1] Ch. Helling, N. Iro, L. Corrales, D. Samra, **K. Ohno**, M.K. Alam, M. Steinrueck, B. Lew, K. Molaverdikhani, R.J MacDonald, O. Herbot, P. Woitke, and V. Parmentier. "Understanding the atmospheric properties and chemical composition of the ultra-hot Jupiter HAT-P-7b I. Cloud and chemistry mapping", *A&A*, 631, 79

Lead-author papers (Japanese article):

- [2] **大野 和正(Ohno, K.)** (2022) "大気から探る惑星形成：原始太陽系円盤の影による木星大気組成の説明“(Exploring Planet Formation from Planetary Atmospheres: An Explanation for the Jovian Atmospheric Compositions by Protosolar Disk Shadow)”, *遊星人*, in press
- [1] **大野 和正(Ohno, K.)** (2020) "系外惑星「遠い世界の物語」その13 系外惑星大気中の鉱物雲 (Mineral clouds in exoplanetary atmospheres)", *遊星人*, 2020PPE02

Observational Proposal Involvement:

- [1] Wakeford, H., Alderson, L., Batalha, N., Grant, D., Lewis, N., Lopez-Morales, M., MacDonald, R., Marley, M., Moran S. E., & **Ohno, K.** (Co-I). “Hubble Ultraviolet-optical Survey of Transiting Legacy Exoplanets (HUSTLE) treasury program”, HST Cycle 30, GO-17183 (122 orbits)

Press release & News articles:

- [3] "JWST makes first unequivocal detection of carbon dioxide in an exoplanet atmosphere", Press release from UCSC, (The JWST Transiting Exoplanet Community Early Release Science Team 2022, *Nature*, in press)
- [2] "A shadowy birthplace may explain Jupiter’s strange chemistry: A frigid planetary nursery could account for the gas giant’s peculiar atmospheric composition", *ScienceNews*, (**Ohno, K.**, & Ueda, T. 2021, *A&A*, 651, L2)
- [1] “太陽系外惑星の材料を特定する新しい観測手法の提案—壊れゆく惑星から流れ出る塵の色を宇宙望遠鏡の組み合わせで観る”, 東工大プレスリリース, (Okuya, A., Okuzumi, S., **Ohno, K.**, & Hirano, T. 2020, *ApJ*, 901, 2)

Non-refereed articles:

- [1] “[SPICA サイエンス検討会最終報告書](#)” (Section 7.6 執筆)

Supervising Experience

- Spalding, P. “Atmospheric Compositions of Hot Jupiters at Distinct Formation Scenario as Revealed by a Volatile Evolution Model of Protoplanetary Disks”
- Patel, N. “Searching for the Optimum Planetary Properties to Constrain Nitrogen Abundances with a Disequilibrium Chemical Model”
- Wu, J. (co-advisor) “Morphological Evolution of Aggregate Hazes in Warm Sub-Neptune GJ1214b”
- Dymont, A. (co-advisor) “Searching for the Statistical Trends in Transmission Spectra of Warm Exoplanets”, (Dymont, Yu, Ohno, et al. 2022, ApJ, in press)

Presentations in International Conferences (15 talks, 13 posters)

- [28] **Ohno, K.**, Zhang, X., Tazaki, R., & Okuzumi, S. "*Haze Formation on Triton and Comparisons to Pluto*", New Horizons Science Team Meeting#50, Oral, May 2022 (**Invited talk**)
- [27] **Ohno, K.**, Mayorga, L., Fortney, J., Dalba, P., Yu, X., Dymont, A., Thompson, M. "*Aerosol Formation on Eccentric Exoplanets: The Interplay between Disequilibrium Chemistry and Microphysics*", Exoplanets IV, Poster, May 2022
- [26] **Ohno, K.**, & Tanaka, A. Y., "*Aerosol microphysics in escaping atmospheres: Implications for the origin of super-puffs*", 239th Meeting of the American Astronomical Society (Canceled) , Oral, Jan 2022
- [25] **Ohno, K.**, Zhang, X., Tazaki, R., & Okuzumi, S. "*Microphysics of Haze Formation in Triton's Cold Atmosphere*", AGU Fall meeting 2021 , Online, Poster, Dec 2021
- [24] **Ohno, K.** & Ueda, T. "*Jupiter's "Cold" Formation in Protosolar Disk Shadow: An Explanation for the Planet's Uniformly Enriched Atmosphere*", 53rd Annual Meeting of the AAS Division for Planetary Science, online, Oct 2021 (Oral)
- [23] **Ohno, K.**, Zhang, X., Tazaki, R., & Okuzumi, S. "*Microphysics of Haze Formation on Triton and Model Application to Exoplanets*", EPSC 2021, online, Sep 2021 (**Invited talk**)
- [22] **Ohno, K.** & Tanaka A, Y. "*Aerosols in escaping atmospheres: Implications for Transmission Spectra and Origin of Super-puffs*", Atmospheres, Atmospheres! Do I look like I care about atmospheres?, online, Aug 2021 (Oral)
- [21] **Ohno, K.** & Tanaka A, Y. "*Aerosol Growth in Escaping Atmospheres: Implication for the Inflated Radii of Super-puffs and Young Exoplanets*", 2021 Sagan Exoplanet Summer Virtual Workshop, online, Aug 2021 (Poster)
- [20] **Ohno, K.** & Kawashima, Y. "*Super-Rayleigh slopes in exoplanetary transmission spectra may imply hazy atmospheres with vigorous mixing*", STScI Spring Symposium, online, Apr 2020 (Poster)
- [19] **Ohno, K.** & Tanaka A, Y. "*Grain growth in escaping atmospheres and its implications for the origin of super-puffs*", Bay Area Exoplanet Meetings, online, Mar 2021 (Oral)
- [18] **Ohno, K.** & Kawashima, Y. "*Super-Rayleigh slopes of exoplanetary transmission spectra generated by photochemical haze*", 52nd Annual Meeting of the AAS Division for Planetary Science, online, Oct 2020 (Oral)
- [17] **Ohno, K.**, Okuzumi, S., & Tazaki, R. "*Exo-hail or Exo-snow? Microphysical modeling and synthetic observations of sub-Neptune clouds*", Exoplanets III, online, Jul 2020 (Poster)
- [16] **Ohno, K.**, Kawauchi, K., Kawashima, Y., Hirano, T., Matsuo Taro., Okuya, A., Fujii, Y. "*Hunts for Mineral Clouds in Warm Exoplanets with SPICA*", SPICA collaboration meeting, splinter session, zoom, Mar 2020 (Oral)
- [15] **Ohno, K.**, Okuzumi, S., & Tazaki, R. "*Clouds of Fluffy Aggregates: How They Form in Exoplanetary Atmospheres and Influence Transmission Spectra*", Planet2/RESCUE Symposium 2019, Okinawa, Japan, Oct 2019 (Oral)
- [14] **Ohno, K.**, Okuzumi, S., & Tazaki, R. "*Clouds of Fluffy Aggregates in Exoplanetary Atmospheres*", EPSC-DPS Joint Meeting 2019, Geneva, Switzerland, Sep 2019 (Oral)
- [13] **Ohno, K.**, Okuzumi, S., & Tazaki, R. "*Clouds of fluffy mineral aggregates in warm mini-Neptunes*", Extreme Solar Systems IV, Reykjavik, Iceland, Aug 2019 (Poster)
- [12] **Ohno, K.**, Zhang, X. "*Atmospheric Circulation and Thermal Light Curves of Eccentric-Tilted Exoplanets*", Exoclimates V, University of Oxford, England, Aug 2019 (Poster)
- [11] **Ohno, K.**, & Zhang X. "*Atmospheric Dynamics on Eccentric-Tilted Exoplanets and Implications for Thermal Light Curves*", The 1st International Workshop for Aquaplanetology, ELSI, Japan, Mar 2019 (Oral)

- [10] **Ohno, K.**, Okuzumi, S., & Tazaki, R. “*Mineral Clouds of Fluffy Aggregates in Exoplanetary Atmospheres*”, Cloud Academy, Les Houches, France, Sep 2018 (Oral)
- [9] **Ohno, K.**, Okuzumi, S., & Tazaki, R. “*Microphysical Modeling of KCl Clouds on Warm Exoplanets*”, Other Worlds Laboratory 2018 Exoplanet Summer Program, University of California Santa Cruz, America, Jul 2018 (Oral)
- [8] **Ohno, K.**, Okuzumi, S., & Tazaki, R. “*Clouds of Fluffy Mineral Particles: a Possible Explanation for the Flat Transmission Spectra of Super-Earths*”, Exoplanets II, Cambridge University, England, Jul 2018 (Poster)
- [7] **Ohno, K.** & Okuzumi, S., “*Microphysical Modeling of Mineral Clouds in Warm Super-Earths*”, DTA Symposium VIII: Challenge to Super-Earths and Their Atmospheres, NAOJ, Tokyo, Japan, Mar 2018 (Oral)
- [6] **Ohno, K.** & Okuzumi, S., “*Microphysical Modeling of Convective Dust Clouds in Warm Super-Earths*”, Exoplanets and Planet Formation, Shanghai, China, Dec 2017 (Poster)
- [5] **Ohno, K.** & Okuzumi, S., “*Microphysical modeling of dust clouds in GJ1214b: Influence of atmospheric metallicity*”, JSPS Core-to-Core Program “Planet2” Symposium 2017, Citadelle de Villefranche sur Mer, France, Feb 2017 (Poster)
- [4] **Ohno, K.** & Okuzumi, S., “*A Condensation-Coalescence Cloud Model for Exoplanetary Atmospheres: Formulation and Test Application to Terrestrial and Jovian Clouds*”, Linking Exoplanet and Disk Compositions, Space Telescope Science Institute, Baltimore, America, Sep 2016 (Poster)
- [3] **Ohno, K.** & Zhang, X., “*Influence of planetary obliquity on atmospheric dynamics on non-synchronized exoplanets*”, Kavli Summer Program in Astrophysics 2016, University of California Santa Cruz, America, Jul 2016 (Oral)
- [2] **Ohno, K.** & Okuzumi, S., “*A New Cloud Model for Exoplanets: Formulation and Test Calculations*”, Kavli Summer Program in Astrophysics 2016, University of California Santa Cruz, America, Jun 2016 (Poster)
- [1] **Ohno, K.** & Okuzumi, S., “*A New Cloud Model for Exoplanets: Formulation and Test Calculations*”, P24, International Workshop on “Exoplanets and Disks: Their Formation and Diversity III”, Ishigaki Island, Japan, Feb 2016 (Poster)

Presentations in Domestic Conferences (19 talks, 5 posters)

- [24] **大野和正**, 田中祐希, Fortney Jonathan “On the origin of extremely low-density exoplanets”, JpGU2022、ハイブリッド、2022年5月(口頭)
- [23] **大野和正**, 植田高啓, 「大気から探る惑星形成: 影構造を持つ原始惑星系円盤の化学構造と木星形成領域への示唆」, 新学術領域「星・惑星形成」2021年度大研究会, ハイブリッド, 口頭, 2022年3月
- [22] **大野和正**, 植田高啓, 「大気から探る惑星形成: 円盤影領域による木星大気の揮発性元素超過の説明」, 天文学会秋季年会, オンライン, 口頭, 2022年3月
- [21] **大野和正**, 植田高啓 「大気から探る惑星形成: 円盤影領域における木星形成説の提案」 惑星系形成若手研究会、オンライン、2021年2月(口頭)
- [20] **大野和正**, 田中祐希 「ダスト散逸流によるスーパーパフの半径膨張説の再検討」 新学術領域「星惑星形成」2020年度大研究会、オンライン、2020年9月(口頭)
- [19] **大野和正**, 川島由依 「系外惑星の大気透過光スペクトルにおける超レイリースロープ: 光化学ヘイズによる説明」天文学会秋季年会、オンライン、2020年9月(口頭)
- [18] **大野和正**, Zhang Xi, 田崎亮, 奥住聡 「トリトン大気におけるヘイズ形成」 第七回衛星系研究会、東北大学、2020年2月(口頭)
- [17] **大野和正**, 奥住聡, 田崎亮 「系外惑星大気中の雲形成における粒子サイズ・空隙率分布の共進化」 日本惑星科学会 2019年度秋期講演会、京都産業大学、2019年10月(ポスター)
- [16] **大野和正**, Zhang Xi, 田崎亮, 奥住聡 「トリトン大気におけるヘイズ微物理モデリングとヘイズ生成率への示唆」 日本天文学会 2019年秋期年会、熊本大学、2019年9月(口頭)
- [15] **大野和正**, 奥住聡, 田崎亮 “Mineral clouds of fluffy aggregates: how they form in exoplanetary atmospheres and influence transmission spectra”, JpGU2019、PAE20-05、幕張メッセ、2019年5月(口頭)
- [14] **大野和正**, 奥住聡, 田崎亮 「雲粒の空隙率進化によるスーパーアースの高層雲形成と大気組成への示唆」, 日本惑星科学会 2018年度秋期講演会、S1、旭川市科学館サイバル、2018年10月(口頭)

- [13] **大野和正**, Zhang Xi 「自転傾斜角を持つ系外惑星の大気循環構造と熱光度曲線」
日本天文学会 2018 年秋期年会、兵庫県立大学、2018 年 9 月(口頭)
- [12] **大野和正**, 奥住聡, "Microphysical Modeling of Mineral Clouds in Warm Super-Earths: Predicting Upper Limits on the Cloud-Top Height", JpGU 2018、幕張メッセ、2018 年 5 月(口頭)
- [11] **大野和正**, 奥住聡, 田崎亮 「系外惑星におけるダスト雲の空隙率進化とその空間構造」
日本天文学会 2018 年春期年会、P319a、千葉東京、2018 年 3 月(口頭)
- [10] **大野和正**, 奥住聡 「スーパーアース大気における雲形成の理論モデリングと観測との比較」、宇宙生命計算科学連携拠点第三回 WS、筑波大学、2017 年 11 月(口頭)
- [9] **大野和正**, Zhang Xi "Atmospheric Dynamics on Non-Synchronized Tilted Exoplanets: Implications on Observed Thermal Light Curves", JpGU-AGU Joint Meeting 2017、幕張メッセ、2017 年 5 月(ポスター)
- [8] **大野和正**, 奥住聡 「スーパーアース GJ1214b における鉱物雲のモデル化：大気金属量への示唆」、JpGU-AGU Joint Meeting 2017、幕張メッセ、2017 年 5 月(口頭)
- [7] **大野和正**, 奥住聡 「GJ1214b におけるダスト雲鉛直分布の大気金属量に対する依存性」、日本天文学会 2017 年春季年会、P220a、九州大学、2017 年 3 月(口頭)
- [6] **大野和正**, 奥住聡 「系外惑星のための雲微物理モデルの開発：地球と木星の雲観測を用いた妥当性検証」、日本地球惑星連合大会 2016 年度、PPS11-15、幕張メッセ、2016 年 5 月(口頭)
- [5] **大野和正**, 奥住聡 「系外惑星の雲モデル開発：地球と木星の雲観測との比較」
日本天文学会 2016 年春期年会、P247a、首都大学東京、2016 年 3 月(口頭)
- [4] **大野和正**, 奥住聡 「系外惑星観測に向けた雲モデル開発：木星のアンモニア雲観測との比較」、近赤外高分散分光研究会、国立天文台、2015 年 11 月(ポスター)
- [3] **大野和正**, 奥住聡 「衝突併合を考慮した系外惑星の雲モデル：定式化と地球の積雲観測との比較」、日本惑星科学会 2015 年度秋季講演会、O1-01、東工大、2015 年 10 月(口頭)
- [2] **大野和正**, 奥住聡 「系外惑星雲モデルの構築と観測との比較」、日本天文学会 2015 年秋季年会、P223b、東工大、2015 年 5 月(ポスター)
- [1] **大野和正**, 奥住聡 「地球型惑星大気における 1 次元雲形成モデルとその定常解」、JpGU 2015、PPS21-P11、幕張メッセ、2015 年 5 月(ポスター)

Seminar Presentations (International)

- [14] **Ohno, K.**, "Probing Planet Formation through Nitrogen:  From Jupiter to Warm Exoplanets", NASA Jet Propulsion Laboratory (invited)
- [13] **Ohno, K.**, "Form Jupiter in Cold Disk Shadow and Aerosols in Hot Exoplanetary Atmospheres", Yuk lunch seminar, Caltech (zoom, invited)
- [12] **Ohno, K.**, "Lesson from Solar System: From Protoplanetary Disk Structure to Aerosol Microphysics", Plunch, UCSC
- [11] **Ohno, K.**, "Exoplanetary Aerosols: Microphysics and Its Impacts on the Transmission Spectroscopy", astronomy seminar, University of Warwick (zoom, invited)
- [10] **Ohno, K.**, & Ueda, T., "Jupiter's "cold" formation in protosolar disk shadow: An explanation for the planet's uniformly enriched atmosphere", Exocoffee at LSW and MPIA (zoom, invited)
- [9] **Ohno, K.**, & Kawashima, Y., "Super-Rayleigh Slopes in Transmission Spectra of Exoplanets Generated by Photochemical Haze", Exocoffee at LSW and MPIA (zoom, invited)
- [8] **Ohno, K.**, Zhang, X., Tazaki, R., & Okuzumi, S., "Haze formation on Triton", UCSC
- [7] **Ohno, K.**, Okuzumi, S., & Tazaki, R., "Microphysical modeling of mineral clouds on exoplanets", UCSC
- [6] **Ohno, K.**, & Zhang, X., "Atmospheric Dynamics on Eccentric-Tilted Exoplanets and Implications for Thermal Light Curves", UCSC
- [5] **Ohno, K.**, Okuzumi, S., & Tazaki, R., "Microphysical Modeling of Clouds in Exoplanetary Atmospheres", ELSI
- [4] **Ohno, K.**, Okuzumi, S., & Tazaki, R., "Microphysical Modeling of Mineral Clouds in Warm Super-Earths", University of Bern

CURRICULUM VITAE

[3] **Ohno, K.**, Okuzumi, S., & Tazaki, R., “*Microphysical Modeling of Mineral Clouds in Warm Super-Earths*”, Institut de Physique du Globe de Paris

[2] **Ohno, K.**, & Okuzumi, “*Modeling Dust Clouds in Exoplanets: Implications for Atmospheric Metallicity*”, Nice Observatory

[1] **Ohno, K.**, & Okuzumi, “*A New Cloud Model for Exoplanets: Formulation and Test Calculations*”, NASA Jet Propulsion Laboratory