

# Hiroshi Ooguri

Kent and Joyce Kresa Leadership Chair,  
Division of Physics, Mathematics and Astronomy  
Fred Kavli Professor of Theoretical Physics and Mathematics  
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## Education

|      |                     |                     |
|------|---------------------|---------------------|
| 1989 | University of Tokyo | Doctor of Science   |
| 1986 | Kyoto University    | Master of Science   |
| 1984 | Kyoto University    | Bachelor of Science |

## Employments and Academic Affiliations

### *California Institute of Technology* (2000 – present)

|                |                                                                                          |
|----------------|------------------------------------------------------------------------------------------|
| 2025 – present | Kent and Joyce Kresa Leadership Chair,<br>Division of Physics, Mathematics and Astronomy |
| 2007 – present | Fred Kavli Professor of Theoretical Physics and Mathematics                              |
| 2014 – 2025    | Founding Director of the Walter Burke Institute for Theoretical Physics                  |
| 2010 – 2015    | Deputy Chair of the Division of Physics, Mathematics and Astronomy                       |
| 2000 – 2007    | Professor of Theoretical Physics                                                         |

### *University of Tokyo* (1986 – 1989 and 2007 – present)

|                |                                            |
|----------------|--------------------------------------------|
| 2024 – present | University Professor                       |
| 2018 – 2023    | Director of Kavli IPMU                     |
| 2007 – 2022    | Principal Investigator of Kavli IPMU       |
| 1986 – 1989    | Assistant Professor, Department of Physics |

### *Aspen Center for Physics* (2003 – present)

|                |                                |
|----------------|--------------------------------|
| 2023 – present | Honorary Trustee for Life      |
| 2021 – 2024    | Chair of the Board of Trustees |
| 2016 – 2019    | President                      |
| 2011 – 2016    | Trustee                        |
| 2010 – 2011    | Scientific Secretary           |
| 2003 – 2023    | General Member                 |

### *Other Academic Institutions*

|                |                          |                                          |
|----------------|--------------------------|------------------------------------------|
| 2024 – present | Louis Michele Chair      | Institut des Hautes Études Scientifiques |
| 1994 – 2000    | Professor of Physics     | University of California, Berkeley       |
| 1996 – 2000    | Faculty Senior Scientist | Lawrence Berkeley National Laboratory    |
| 1990 – 1996    | Associate Professor      | RIMS, Kyoto University                   |
| 1989 – 1990    | Assistant Professor      | University of Chicago                    |
| 1988 – 1989    | Member                   | Institute for Advanced Study, Princeton  |

### Awards & Honors

|      |                                            |                                                |
|------|--------------------------------------------|------------------------------------------------|
| 2024 | Frontiers of Science Award                 | International Congress of Basic Science, China |
| 2023 | Guggenheim Fellowship                      | Guggenheim Foundation, USA                     |
| 2021 | Benjamin Lee Distinguish Professor         | Korean Physical Society, South Korea           |
| 2019 | Medal of Honor with Purple Ribbon          | Emperor of Japan                               |
| 2018 | Hamburg Prize                              | Joachim Herz Foundation, Germany               |
| 2016 | Fellow                                     | American Academy of Arts and Sciences, USA     |
| 2016 | Chunichi Cultural Prize                    | Chunichi Shimbun, Japan                        |
| 2016 | Best Educational Product Award             | International Planetarium Society              |
| 2014 | Kodansha Prize for Science Books           | Kodansha, Japan                                |
| 2012 | Fellow                                     | American Mathematical Society, USA             |
| 2012 | Simons Investigator (renewed in 2023)      | Simons Foundation, USA                         |
| 2009 | Nishina Memorial Prize                     | Nishina Memorial Foundation, Japan             |
| 2009 | Takagi Lecturer                            | Mathematical Society of Japan                  |
| 2008 | Humboldt Research Award                    | Humboldt Foundation, Germany                   |
| 2008 | Eisenbud Prize for Mathematics and Physics | American Mathematical Society, USA             |

### Distinguished Lectures

|      |                                            |                                                 |
|------|--------------------------------------------|-------------------------------------------------|
| 2024 | Hermann Weyl Distinguished Lectures        | Tsinghua University                             |
| 2024 | Sakata-Hayakawa Memorial Lecture           | Nagoya University                               |
| 2024 | Ta-You Wu Lecture                          | University of Michigan                          |
| 2024 | Pioneers in Theoretical Physics Colloquium | University of British Columbia                  |
| 2023 | Arnold Sommerfeld Lectures                 | Ludwig Maximilian University of Munich          |
| 2022 | Science Lectureship Award                  | Chiba University                                |
| 2019 | Nishina Memorial Lecture                   | Nishina Memorial Foundation                     |
| 2019 | Wolfgang Pauli Lectures                    | Hamburg University and DESY                     |
| 2019 | Bethe Colloquium                           | University of Bonn                              |
| 2019 | Hamilton Colloquium                        | Princeton University                            |
| 2018 | Distinguished Lecture                      | ICTS, Bangalore                                 |
| 2017 | Annual General Assembly Lecture            | Physical Society of Japan                       |
| 2016 | Distinguished Lecture                      | Taiwan National Center for Theoretical Sciences |
| 2013 | Lecture at the First Annual Meeting        | Simons Foundation                               |
| 2012 | Annual General Assembly Lecture            | RIKEN                                           |
| 2009 | Ehrenfest Colloquium                       | Leiden University                               |

### Services to Caltech

|                          |                                                                         |        |
|--------------------------|-------------------------------------------------------------------------|--------|
| 2003 – 2023              | Physics Colloquium Committee<br>(Chair in 2012 – 2015 and 2019 - 2023 ) | Member |
| 2001 – 2002, 2010 – 2012 | PMA Long Term Strategic Planning Committee<br>(Chair in 2010 - 2012)    | Member |
| 2011 – 2014              | Caltech Faculty Board<br>(Steering Committee Member in 2012 – 2014)     | Member |
| 2001 – 2019              | Physics Faculty Search Committee<br>(Co-Chair in 2003 - 2006)           | Member |
| 2004 – 2017              | Mathematics Faculty Search Committee                                    | Member |
| 2012 – 2015              | Undergraduate Admissions Committee                                      | Member |
| 2015 – 2016              | Physics Graduate Committee                                              | Member |

## Prize Selection Committee

American Physical Society Heineman Prize (2024, 2025, Chair 2026)  
 American Academy of Arts and Sciences Membership Panel (2024, 2025, 2026)  
 Marie Skłodowska Curie Award Selection Committee (2022, 2023, 2024, 2025)  
 Soros Fellowships for New American Selection Committee (2017, 2018, 2022, 2023, 2024, 2025)  
 Nishina Memorial Prize Selection Committee (2016 - 2021)  
 Inamori Research Institute for Science Fellowship Selection Committee (2019)  
 Hosi Shin-ichi Prize for Science Fictions Selection Committee (2018)  
 Kyoto Prize Selection Committee (2014)

## Review Boards and Advisory Boards

DOE and NSF Review Panels (multiple years)  
 Visiting Committee, School of Natural Sciences, Institute for Advanced Study (2025)  
 Review Board, Simons Center for Geometry and Physics, Stony Brook University (2025)  
 Scientific Advisory Board, the Max Planck Institute for Physics in Garching, Germany (2024 - present)  
 American Physical Society, Division of Particles and Fields, High Energy Theory  
 Postdoc Deadline Committee (2024 - 2025)  
 Scientific Advisory Committee, Leung Center for Cosmology and Particle Astrophysics, Taiwan (2024 - present)  
 International Advisory Board, Center for Mathematical Physics Hamburg (2023 - 2025)  
 Advisory Board, Universities for International Research Excellence, MEXT, Japan (2023 - 2025)  
 Planning Committee for Strings Conferences (2022 - present)  
 Scientific Committee of Pollica Physics Centre in Salerno, Italy (2022 - present)  
 International Advisory Board, Tohoku Forum for Creativity, Tohoku University (2020 - present)  
 Scientific Committee, Beijing Inst of Mathematical Sciences and Applications (2020 - present)  
 Committee of Visitors, US Department of Energy, Office of High Energy Physics (2020)  
 Steering Committee, String-Math Conference Series (2019 - present)  
 Cluster of Excellence, Hamburg University (2019 - present)  
 Center for Quantum Mathematics and Physics, University of California, Davis (2018 - present)  
 Steering Committee of Kavli Asian Winter School (2011 - present)  
 Solvay Institute, Brussels, Belgium (2008 - present)  
 Scientific Council, ICTP-AP, Beijing (2019)  
 Theory Group, CERN (2016 and 2019)  
 Tata Institute of Fundamental Research (2018)  
 Korea Institute for Advanced Study (2018)  
 Research Institute for Mathematical Sciences, Kyoto University (2013 - 2017)  
 International Congress of Mathematical Physics (2013 - 2015)  
 Chinese Academy of Sciences (2013)  
 Banff International Research Station, Banff, Canada (2008 - 2011)  
 Kavli Institute for Theoretical Physics, University of California, Santa Barbara (2005 - 2008)

## Editorial Boards

Communications in Mathematical Physics (2014 - 2015)  
 Journal of High Energy Physics (1997 - 2006)

Nuclear Physics B (1998 – 2013)  
Physical Review D (2006 – 2009)  
Advances in Theoretical and Mathematical Physics (1997 – present)

Selected Plenary Talks and Invited Lectures in 2018 - now

KITP, Santa Barbara (March 20, 2025)  
American Physical Society Meeting: Global Physics Summit, Particle Physics in Asia (March 19, 2025)  
Hitoshi Fest, Kavli IPMU (December 16 - 20, 2024)  
International Congress of Basic Sciences, Beijing (July 15, 2024)  
Niles Bohr Institute Theory Seminar (June 27, 2024)  
Costas Bachas Celebration, École Normale Supérieure (June 26, 2024)  
Lematre Conference, Vatican Observatory (June 19, 2024)  
Strings 2024, Closing Remarks (June 10, 2024)  
MIT Theory Group Seminar (May 9, 2024)  
Harvard Theory Group Seminar (May 2, 2024)  
KITP Conference, UCSB (April 2 - 5, 2024)  
KITP Discussion Session Leader, UCSB (March 13, 2024)  
Tsinghua-Tokyo Workshop Tsinghua-Tokyo workshop on Calabi-Yau (January 15 - 19, 2024)  
Theoretical Physics Symposium, Hamburg (September 19 - 21, 2023)  
New York University Colloquium (September 20, 2023)  
Swamplandia, Real Jardin Botanico, Madrid (September 13 - 15, 2023)  
Strings in Seoul 2023 (September 11 - 15, 2023)  
Strings 2023, Perimeter Institute, Closing Remarks (July 28, 2023)  
String-Math 2023, Melbourne, Australia (10 -14 July, 2023)  
Simons Workshop, Simons Center for Geometry and Physics (July 6, 2023)  
University of Heidelberg (July 3, 2023)  
Sommerfeld Lectures, Ludwig Maximilian University of Munich (June 27 - 30, 2023)  
Roberto Longo's 70th Birthday, Enrico Fermi Research Center, Rome (June 21 - 23, 2023)  
SUSY 50, University of Minnesota (May 18 - 20, 2023)  
Eastern Hemisphere Colloquium on Geometry and Physics (January 18, 2023)  
Frontier of Mathematics, TSIMF, China (December 22-29, 2022)  
Simons Summer Workshop (July 25, 2022)  
Strings 2022 in Vienna, Summary Talk (July 22, 2022)  
Verlinde Symposium in Amsterdam (July 14, 2022)  
Opening Lecture, Tehran School on Swampland (May 16, 2022)  
Colloquium, Kyoto University (April 28, 2022)  
One World IAMP Mathematical Physics Seminar (April 19, 2022)  
Western Hemisphere Colloquium on Geometry and Physics (January 24, 2022)  
Kashiwa Campus Colloquium, University of Tokyo (December 5, 2021)  
Conference in honor of the 60th birthday of Atsushi Moriwaki (December 2, 2021)  
Yale University Particle Theory Seminar (November 30, 2021)  
Local Quantum Physics Colloquium (November 24, 2021)  
Benjamin Lee Lecture Series at APCTP (November 1 and 2, 2021)  
Korean Physical Society Meeting, Benjamin Lee Award Lecture (October 20, 2021)

Humboldt Kolleg, Corfu, Greece (September 17 - 21, 2021)  
 Strings 2021 Summary Talk, São Paulo (June 21 - July 2, 2021)  
 PASCOS 2021, South Korea (June 14-18, 2021)  
 Colloquium, Universität Würzburg, Germany (June 7, 2021)  
 Colloquium, the Galileo Galilei Institute, Florence, Italy (February 17, 2021)  
 Colloquium, UC Santa Cruz (January 14, 2021)  
 Seminars, Harvard, Stanford, and Technische Universität Wien (July and August, 2020)  
 Nishina Memorial Lecture, Tokyo (December 6, 2019)  
 UC Berkeley Colloquium (November 25, 2019)  
 Theory Seminar, KITP, UC Santa Barbara (November 21, 2019)  
 Opening Symposium, Institute for Advanced Research, Nagoya University (November 15, 2019)  
 Amherst Workshop “Theoretical Tests of the Swampland” (October 21 - 23)  
 KIPC Conference “Cosmic Controversy” (October 5 - 8, 2019)  
 Pauli Lectures, Hamburg University (September 30 - October 2, 2019)  
 IFT Conference “Navigating the Swampland” (September 27, 2019)  
 Colloquium, IFT-Madrid (September 26, 2019)  
 10th Anniversary of J-PARC (September 24, 2019)  
 Biennial European Physical Society Conference, Ghent (July 10 - 17, 2019)  
 Strings 2019, Brussels (June 25 - 29, 2019)  
 It from Qubit Workshop and School, Kyoto (June 17 - 28, 2019)  
 SUSY 2019, Texas (May 20 - 24, 2019)  
 String Field Theory and String Worldsheet Theory, Florence (May 6 - 10, 2019)  
 Bethe Colloquium, University of Bonn (April 25, 2019)  
 Colloquium, Princeton University (April 9, 2019)  
 Colloquium, University of Chicago (February 21, 2019)  
 Colloquium, Cornell University (February 18, 2019)  
 CERN Winter School, 4 lectures (February 4 - 8, 2019)  
 Colloquium, DESY (November 11, 2018)  
 Colloquium, Aspen Center for Physics (August 23, 2018)  
 Simons Summer Worksho 2018, SCGP (August 1, 2018)  
 50 Years of Veneziano Model, GGI Florence (May 14, 2018)  
 Feynman Centennial Symposium, Caltech (May 12, 2018)  
 Quantum Gravity and Holography, Kavli IPMU (April 2 - 6, 2018)  
 Colloquium, Harvard University (March 26, 2018)  
 Accelerating Universe, Sendai, Japan (February 11, 2018)  
 Robert Brout Memorial Symposium, NTU, Singapore (January 18, 2018)  
 Distinguished Lecture, ICTS, Bangalore, India (January 15, 2018)

#### Selected Public Lectures in 2018 - now

S.-T. Yau High School Science Award Lecture, Tsinghua University (December 8, 2024)  
 Science & Cocktail, Copenhagen (June 27, 2024)  
 Public Lecture at the inauguration of the new Chunichi Building (May 26, 2024)  
 Lecture at the Nagoya University Medical School (November 10, 2023)  
 Lecture at the 150th Anniversary of Gifu High School (October 29, 2023)  
 Public Lecture at ESO planetarium, Munich (June 29, 2023)

Lecture at the annual meeting of the Japan Endocrine Society (June 1, 2023)  
50th Anniversary of the Kobayashi-Maskawa Theory, Tokyo, Japan (February 18, 2023)  
Lecture at the annual meeting of the Japan Society of Anesthesia (December 2, 2022)  
Tokyo Forum 2022 "Dialogue between Philosophy and Science" (December 1, 2022)  
Special Public Lecture at the University of Tokyo, "What is Gravity" (October 22, 2022)  
Dialogue with Cumrun Vafa, Tokyo, Japan (October 19, 2022)  
Public lecture at the Embassy of Japan in London, UK (September 16, 2022)  
Science and Music, Aspen, Colorado (August 8, 2022)  
Science & Cocktails, Amsterdam (July 13, 2022)  
Horikawa High School, Kyoto (April 27, 2022)  
Forum of Industry Leaders in Japan (April 25, 2022)  
15th Anniversary Symposium of the Kavli IPMU (April 24, 2022)  
Entrance Ceremony of the University of Tokyo Graduate Schools (April 12, 2022)  
IFI Symposium, University of Tokyo (February 22, 2022)  
Philosophers in Greater Tokyo (July 14, 2021)  
Public Lectures in Tokyo, Yokohama, and Osaka (April 18/May 22/July 24, 2021)  
WPI Science Symposium, University of Tokyo (January 12, 2020)  
University of Tokyo Kashiwa Open Campus (October 26, 2019)  
Hamburg Planetarium, Hamburg, Germany (October 1, 2019)  
University of Tokyo Executive Program (June 27, 2019)  
Hamburg Planetarium, Hamburg, Germany (November 8, 2018)  
Aspen Rotary Club, Aspen, Colorado (August 24, 2018)  
Okinawa Institute for Science and Technology (June 30, 2018)  
Tohoku University (June 23, 2018)  
Nehru Planetarium, Mumbai, India (April, 2018)  
Nehru Planetarium, Bangalore, India (January 14, 2018)

#### Conference Organizations in 2016 - now

KITP Program, UCSB (February 18 - March 13, 2020)  
Kavli Asian Winter School 2020, Sendai, Japan (January 13 - 22, 2020)  
Strings 2018, Okinawa, Japan (June 25 - 29, 2018)  
String-Math 2018, Sendai, Japan (June 18 - 22, 2018)  
The 10th Anniversary Symposium of the Kavli IPMU (October 16 - 18, 2017)  
Simons Symposium on Quantum Entanglement, Elmau, Germany (May 1 - 5, 2017)  
The 75th Birthday Symposium for John Schwarz, Caltech (November 18 - 19, 2016)  
General Relativity at One Hundred, Caltech (March 10 - 12, 2016)  
F-Theory at 20, Caltech (February 22 - 26, 2016)  
Statistics, Quantum Information, and Gravity, Tokyo, Japan (September 27, 2016)  
Asian Winter School in String Theory, Okinawa, Japan (January 6 - 16, 2016)

# Publication

1. **“Universality of Rényi Entropy in Conformal Field Theory,”**  
Y. Kusuki, H. Ooguri, and S. Pal.  
2503.24353 [hep-th]  
Phys. Rev. Lett. **135**, 6, 061603 (2025)
2. **“Nonrenormalization Theorem for  $\mathcal{N} = (4, 4)$  Interface Entropy,”**  
A. Karch, H. Ooguri, and M. Q. Wang.  
2502.06928 [hep-th]  
JHEP **07**, 109 (2025)
3. **“Entanglement Asymmetry and Symmetry Defects in Boundary Conformal Field Theory,”**  
Y. Kusuki, S. Murciano, H. Ooguri, and S. Pal.  
arXiv: 2411.09792 [hep-th]  
JHEP **01**, 057 (2025)
4. **“Universal Bounds on CFT Distance Conjecture,”**  
H. Ooguri and Y. Wang.  
arXiv: 2405.00674 [hep-th]  
JHEP **12**, 154 (2024)
5. **“Universal Bound on Effective Central Charge and Its Saturation,”**  
A. Karch, Y. Kusuki, H. Ooguri, H. Y. Sun, and M. Q. Wang.  
arXiv: 2404.01515 [hep-th]  
Phys. Rev. Lett. **133**, 9, 091604 (2024)
6. **“Symmetry-resolved entanglement entropy, spectra & boundary conformal field theory,”**  
Y. Kusuki, S. Murciano, H. Ooguri and S. Pal.  
arXiv:2309.03287 [hep-th]  
JHEP **11**, 216 (2023)
7. **“Universality of Effective Central Charge in Interface CFTs,”**  
A. Karch, Y. Kusuki, H. Ooguri, H. Y. Sun, M. Q. Wang.  
arXiv:2308.05436 [hep-th]  
JHEP **11**, 126 (2023)
8. **“Universal Asymptotics for High Energy CFT Data,”**  
N. Benjamin, J. Lee, H. Ooguri, and D. Simmons-Duffin.  
arXiv:2306.08031 [hep-th]  
JHEP **03**, 115 (2024)
9. **“Universal formula for the density of states with continuous symmetry,”**  
M. J. Kang, J. Lee, and H. Ooguri,  
arXiv:2206.14814 [hep-th]  
Phys. Rev. D **107**, no.2, 026021 (2023)
10. **“A universal formula for the density of states in theories with finite-group symmetry,”**  
D. Harlow and H. Ooguri,  
arXiv:2103.15826 [hep-th]  
Class. Quant. Grav. **39**, no.13, 134003 (2022)

11. **“Narain to Narnia,”**  
N. Benjamin, C. A. Keller, H. Ooguri and I. G. Zadeh,  
arXiv:2109.03838 [hep-th]  
Commun. Math. Phys. **390**, no.1, 425 (2022)
12. **“On Rational Points in CFT Moduli Spaces,”**  
N. Benjamin, C. A. Keller, H. Ooguri and I. G. Zadeh,  
arXiv:2011.07062 [hep-th]  
JHEP **04**, 067 (2021)
13. **“Singularities of thermal correlators at strong coupling”**  
M. Dodelson and H. Ooguri,  
arXiv:2010.09734 [hep-th]  
Phys. Rev. D **103**, no.6, 066018 (2021)
14. **“Cobordism Conjecture in AdS”**  
H. Ooguri and T. Takayanagi,  
arXiv:2006.13953 [hep-th]
15. **“Duality and Axionic Weak Gravity”**  
S. Andriolo, T. C. Huang, T. Noumi, H. Ooguri and G. Shiu,  
arXiv:2004.13721 [hep-th]  
Phys. Rev. D **102**, no.4, 046008 (2021)
16. **“High-energy behavior of Mellin amplitudes”**  
M. Dodelson and H. Ooguri,  
arXiv:1911.05274 [hep-th]  
Phys. Rev. D **101**, no.6, 066008 (2020)
17. **“Light-cone modular bootstrap and pure gravity”**  
N. Benjamin, H. Ooguri, S. H. Shao and Y. Wang,  
arXiv:1906.04184 [hep-th]  
Phys. Rev. D **100**, no.6, 066029 (2019)
18. **“Distance and de Sitter Conjectures on the Swampland”**  
H. Ooguri, E. Palti, G. Shiu and C. Vafa.  
arXiv:1810.05506 [hep-th]  
Phys. Lett. B **788**, 180 (2019)
19. **“Constraints on symmetry from holography”**  
D. Harlow and H. Ooguri.  
arXiv:1810.05337 [hep-th]  
Phys. Rev. Lett. **122**, no.19, 191601 (2019)
20. **“Symmetries in quantum field theory and quantum gravity”**  
D. Harlow and H. Ooguri.  
arXiv:1810.05338 [hep-th]  
Commun. Math. Phys. **383** (2021) 3, 1669-1804
21. **“De Sitter Space and the Swampland”**  
G. Obied, H. Ooguri, L. Spodyneiko and C. Vafa.  
arXiv:1806.08362 [hep-th]
22. **“Distinguishability of Black Hole Microstates”**  
N. Bao and H. Ooguri.  
arXiv:1705.07943 [hep-th]  
Phys. Rev. D **96**, no. 6, 066017 (2017)
23. **“New Kaluza-Klein Instantons and the Decay of AdS Vacua”**  
H. Ooguri and L. Spodyneiko.  
arXiv:1703.03105 [hep-th]  
Phys. Rev. D **96**, no. 2, 026016 (2017)

24. **“Shortening Anomalies in Supersymmetric Theories”**  
J. Gomis, Z. Komargodski, H. Ooguri, N. Seiberg and Y. Wang.  
arXiv:1611.03101 [hep-th]  
JHEP **1701**, 067 (2017)
25. **“Non-supersymmetric AdS and the Swampland”**  
H. Ooguri and C. Vafa.  
arXiv:1610.01533 [hep-th]  
Adv. Theor. Math. Phys. **21**, 1787 (2017)
26. **“Gravitational Positive Energy Theorems from Information Inequalities”**  
N. Lashkari, J. Lin, H. Ooguri, B. Stoica and M. Van Raamsdonk.  
arXiv:1605.01075 [hep-th]  
PTEP **2016**, no. 12, 12C109 (2016)
27. **“Bulk Local States and Crosscaps in Holographic CFT”**  
Y. Nakayama and H. Ooguri.  
arXiv:1605.00334 [hep-th]  
JHEP **1610**, 085 (2016)
28. **“Reflections on Conformal Spectra”**  
H. Kim, P. Kravchuk and H. Ooguri.  
arXiv:1510.08772 [hep-th]  
JHEP **1604**, 184 (2016)
29. **“Bulk Locality and Boundary Creating Operators”**  
Y. Nakayama and H. Ooguri.  
arXiv:1507.04130 [hep-th]  
JHEP **1510**, 114 (2015)
30. **“The Holographic Entropy Cone”**  
N. Bao, S. Nezami, H. Ooguri, B. Stoica, J. Sully and M. Walter.  
arXiv:1505.07839 [hep-th]  
JHEP **1509**, 130 (2015)
31. **“Locality of Gravitational Systems from Entanglement of Conformal Field Theories”**  
J. Lin, M. Marcolli, H. Ooguri and B. Stoica.  
arXiv:1412.1879 [hep-th]  
Phys. Rev. Lett. **114**, 221601 (2015)
32. **“Hall Viscosity and Angular Momentum in Gapless Holographic Models”**  
H. Liu, H. Ooguri and B. Stoica.  
arXiv:1403.6047 [hep-th]  
Phys. Rev. D **90**, no. 8, 086007 (2014)
33. **“Angular Momentum Generation by Parity Violation”**  
H. Liu, H. Ooguri and B. Stoica.  
arXiv:1311.5879 [hep-th]  
Phys. Rev. D **89**, no. 10, 106007 (2014)
34. **“Out of Equilibrium Temperature from Holography”**  
S. Nakamura and H. Ooguri.  
arXiv:1309.4089 [hep-th]  
Phys. Rev. D **88**, no. 12, 126003 (2013)
35. **“Spontaneous Generation of Angular Momentum in Holographic Theories”**  
H. Liu, H. Ooguri, B. Stoica and N. Yunes.  
arXiv:1212.3666 [hep-th]  
Phys. Rev. Lett. **110**, no. 21, 211601 (2013)

36. **“Modular Constraints on Calabi-Yau Compactifications”**  
C. A. Keller and H. Ooguri.  
arXiv:1209.4649 [hep-th]  
Commun. Math. Phys. **324**, 107 (2013)
37. **“Lectures on topological string theory”**  
H. Ooguri.  
Lect. Notes Phys. **851**, 233 (2012).
38. **“Instability in magnetic materials with dynamical axion field”**  
H. Ooguri and M. Oshikawa.  
arXiv:1112.1414 [cond-mat.mes-hall]  
Phys. Rev. Lett. **108**, 161803 (2012)
39. **“Comments on Worldsheet Description of the Omega Background”**  
Y. Nakayama and H. Ooguri.  
arXiv:1106.5503 [hep-th]  
Nucl. Phys. B **856**, 342 (2012)
40. **“Spatially Modulated Phase in Holographic Quark-Gluon Plasma”**  
H. Ooguri and C. S. Park.  
arXiv:1011.4144 [hep-th]  
Phys. Rev. Lett. **106**, 061601 (2011)
41. **“Holographic End-Point of Spatially Modulated Phase Transition”**  
H. Ooguri and C. S. Park.  
arXiv:1007.3737 [hep-th]  
Phys. Rev. D **82**, 126001 (2010)
42. **“Wall Crossing As Seen By Matrix Models”**  
H. Ooguri, P. Sulkowski and M. Yamazaki.  
arXiv:1005.1293 [hep-th]  
Commun. Math. Phys. **307**, 429 (2011)
43. **“Notes on the K3 Surface and the Mathieu group  $M_{24}$ ”**  
T. Eguchi, H. Ooguri and Y. Tachikawa.  
arXiv:1004.0956 [hep-th]  
Exper. Math. **20**, 91 (2011)
44. **“Supersymmetry Breaking and Gauge Mediation”**  
R. Kitano, H. Ooguri and Y. Ookouchi.  
arXiv:1001.4535 [hep-th]  
Ann. Rev. Nucl. Part. Sci. **60**, 491 (2010)
45. **“Gravity Dual of Spatially Modulated Phase”**  
S. Nakamura, H. Ooguri and C. S. Park.  
arXiv:0911.0679 [hep-th]  
Phys. Rev. D **81**, 044018 (2010)
46. **“Wall Crossing and M-theory”**  
M. Aganagic, H. Ooguri, C. Vafa and M. Yamazaki.  
arXiv:0908.1194 [hep-th]  
Publ. Res. Inst. Math. Sci. Kyoto **47**, 569 (2011)
47. **“Supersymmetric non-relativistic geometries in M-theory”**  
H. Ooguri and C. S. Park.  
arXiv:0905.1954 [hep-th]  
Nucl. Phys. B **824**, 136 (2010)
48. **“Emergent Calabi-Yau Geometry”**  
H. Ooguri and M. Yamazaki.

- arXiv:0902.3996 [hep-th]  
 Phys. Rev. Lett. **102**, 161601 (2009)
49. **“Geometry As Seen By String Theory”**  
 H. Ooguri.  
 arXiv:0901.1881 [math.AG]  
 Jpn. J. Math. (2009) 4, 95.
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