

# Hiroshi Ooguri

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## Education:

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

## Employment:

### Positions at the California Institute of Technology:

2007 – present	Fred Kavli Professor of Theoretical Physics and Mathematics
2014 – present	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 and Mathematics

### Positions at Other Institutions:

2018 – present	University of Tokyo	Director of the Kavli IPMU
1994 – 2000	University of California, Berkeley	Professor
1996 – 2000	Lawrence Berkeley National Laboratory	Faculty Senior Scientist
1990 – 1996	Kyoto University	Associate Professor
1989 – 1990	University of Chicago	Assistant Professor
1988 – 1989	Institute for Advanced Study, Princeton	Member of the School of Natural Sciences
1986 – 1989	University of Tokyo	Assistant Professor

## Awards & Honors:

2021	Korean Physical Society and APCTP	Benjamin Lee Distinguish Professor
2019	Emperor of Japan	Medal of Honor with Purple Ribbon
2019	Nishina Memorial Foundation	Nishina Memorial Lecture
2018	Joachim Herz Foundation	Hamburg Prize
2016	American Academy of Arts and Sciences	Fellow
2016	Chunichi Shimbun	Chunichi Cultural Prize
2016	International Planetarium Society	Best Educational Product Award
2014	Kodansha	Kodansha Prize for Science Books
2012	American Mathematical Society	Fellow
2012	Simons Foundation	Simons Investigator
2009	Nishina Memorial Foundation	Nishina Memorial Prize
2009	Mathematical Society of Japan	Takagi Lecturer
2008	Alexander von Humboldt Foundation	Humboldt Research Award
2008	American Mathematical Society	Eisenbud Prize for Mathematics and Physics

## Professional Activities:

2016 – 2019	Aspen Center for Physics	President
2011 – 2016	Aspen Center for Physics	Trustee
2010 – 2011	Aspen Center for Physics	Scientific Secretary
2003 – present	Aspen Center for Physics	Member
2007 – 2018	Kavli IPMU, University of Tokyo	Principal Investigator

## Services to Caltech:

2003 – present	Physics Colloquium Committee (Chair in 2012 – 2015 and 2019 - present )	Member
2001 – 2002, 2010 – 2012	PMA Long Term Strategic Planning Committee (Chair in 2010 - 2012)	Member
2011 – 2014	Caltech Faculty Board (Steering Committee Member in 2012 – 2014)	Member
2001 – 2019	Physics Faculty Search Committee (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

## Review Boards and Advisory Boards:

DOE and NSF Review Panels (multiple years)  
Committee of Visitors, US Department of Energy, Office of High Energy Physics (2020)  
International Advisory Board, Tohoku Forum for Creativity, Tohoku University (2020 - present)  
Scientific Committee, Beijing Inst of Mathematical Sciences and Applications (2020 - present)  
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)  
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)

## Prize Selection Committee:

Nishina Memorial Prize Selection Committee (2016 - present)  
Inamori Research Institute for Science Fellowship (2019)  
Hosi Shin-ichi Prize for Science Fictions (2018)  
Soros Fellowships for New American Selection Committee (2017, 2018)  
Kyoto Prize (2014)

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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)

Plenary Talks and Invited Lectures in 2016 - 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)  
The 20th Anniversary of AdS/CFT, Princeton (Oct 31 - Nov 3, 2017)  
Quantum Information in Quantum Gravity, UCB Vancouver (August 14 - 18, 2017)

Simons Summer Workshop, Simons Center for Geometry and Physics (July 17, 2017)  
String-Pheno 2017, Virginia Tech (July 3 - 7, 2017)  
Strings 2017, Tel Aviv, Israel (June 26 - 30, 2017)  
PASCOS 2017, Madrid, Spain (June 19 - 23, 2017)  
Simons Symposium, Elmau, Germany (May 1 - 5, 2017)  
Quantum Gravity, String Theory and Holography, Kyoto, Japan (April 3 - 7, 2017)  
4 Lectures at String School, ICTP, Trieste, Italy (March 21 - 24, 2017)  
Main Lecture, Japanese Physical Society Annual Meeting (March 19, 2017)  
String Theory: Past and Present, ICTP, Bangalore, India (January 11 - 13, 2017)  
Entanglement in Field Theory and Gravity, Simons Center, Stony Brook (December 5 - 7, 2016)  
Distinguished Lecture, NCTS, Taiwan (November 23, 2016)  
75th Birthday Symposium for John Schwarz, Caltech (November 18 - 19, 2016)  
Sunry Foundation Symposium, Tokyo, Japan (October 1, 2016)  
Strings 2016, Beijing, China (August 1 - 5, 2016)  
It from Qubit Summer School, Perimeter Institute, Canada (July 18 - 29, 2016)  
Amsterdam String Workshop, Netherland (July 4 - 7, 2016)  
It from Qubit Meeting, Kyoto, Japan (June 20 - 24, 2016)  
Colloquium, CMSA, Harvard University, (May 4, 2016)  
Nambu Memorial Symposium, University of Chicago (March 14, 2016)  
75th Birthday Symposium for David Gross, Jerusalem, Israel (February 28 - March 3, 2016)  
F-Theory at 20, Caltech (February 22 - 26, 2016)  
String-Math 2015, Hainan Island, China (December 31, 2015 - January 4, 2016)

#### Public Lectures in 2016 - 2020:

Hamburg Planetarium, Hamburg, Germany (October 1, 2019)  
Hamburg Planetarium, Hamburg, Germany (November 8, 2018)  
Nehru Planetarium, Mumbai, India (April, 2018)  
Nehru Planetarium, Bangalore, India (January 14, 2018)  
Aspen Center for Physics, Colorado (June 8, 2017)  
KEK, Japan (April 11, 2017)  
Kyoto University, Japan (April 8, 2017)  
University of Tokyo, Japan (January 22, 2017)  
Collège de France, Paris, France (July 2, 2016).  
Phillips Exeter Academy, New Hampshire (May 20, 2016)  
Miraikan, Science Museum in Tokyo, Japan (January 17, March 26, and April 19, 2016)  
Chunichi Cultural Center, Nagoya, Japan (January 18, 2016)

#### Education & Outreach:

- Voted as one of best instructors by graduating seniors at the University of California at Berkeley (1999).
- List of former students and postdoctoral fellows is available at <http://ooguri.caltech.edu/students/>.
- Six popular science books in Japanese, sold over 300,000 copies in Japan and all translated into Chinese and Korean. One of them received the 2014 Kodansha Prize for Science Books.
- Scientific advisor for *The Man from 9 Dimensions*, a 3D dome theater movie. It received the 2016 Best Educational Production Award from the International Planetarium Society.

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- Monthly popular science article on the Universe in *Weekly Diamond*, a business magazine of the highest circulation in Japan (2015 - 2019).
  - Weekly column in *Chunichi Shimbun*, a major newspaper in Japan (January - June, 2017)

#### Conference Organizations in 2016 - 2020

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. **“Narain to Narnia,”**  
N. Benjamin, C. A. Keller, H. Ooguri and I. G. Zadeh,  
arXiv:2103.15826 [hep-th]
2. **“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)
3. **“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)
4. **“Cobordism Conjecture in AdS”**  
H. Ooguri and T. Takayanagi,  
arXiv:2006.13953 [hep-th]
5. **“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)
6. **“High-energy behavior of Mellin amplitudes”**  
M. Dodelson and H. Ooguri,  
arXiv:1911.05274 [hep-th]  
Phys. Rev. D **101**, no.6, 066008 (2020)
7. **“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)
8. **“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)
9. **“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)
10. **“Constraints on symmetry from holography”**  
D. Harlow and H. Ooguri.  
arXiv:1810.05337 [hep-th]  
Phys. Rev. Lett. **122**, no.19, 191601 (2019)
11. **“Symmetries in quantum field theory and quantum gravity”**  
D. Harlow and H. Ooguri.  
arXiv:1810.05338 [hep-th]  
to appear in Commun. Math. Phys.

12. **“De Sitter Space and the Swampland”**  
G. Obied, H. Ooguri, L. Spodyneiko and C. Vafa.  
arXiv:1806.08362 [hep-th]
13. **“Distinguishability of Black Hole Microstates”**  
N. Bao and H. Ooguri.  
arXiv:1705.07943 [hep-th]  
Phys. Rev. D **96**, no. 6, 066017 (2017)
14. **“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)
15. **“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)
16. **“Non-supersymmetric AdS and the Swampland”**  
H. Ooguri and C. Vafa.  
arXiv:1610.01533 [hep-th]  
Adv. Theor. Math. Phys. **21**, 1787 (2017)
17. **“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)
18. **“Bulk Local States and Crosscaps in Holographic CFT”**  
Y. Nakayama and H. Ooguri.  
arXiv:1605.00334 [hep-th]  
JHEP **1610**, 085 (2016)
19. **“Reflections on Conformal Spectra”**  
H. Kim, P. Kravchuk and H. Ooguri.  
arXiv:1510.08772 [hep-th]  
JHEP **1604**, 184 (2016)
20. **“Bulk Locality and Boundary Creating Operators”**  
Y. Nakayama and H. Ooguri.  
arXiv:1507.04130 [hep-th]  
JHEP **1510**, 114 (2015)
21. **“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)
22. **“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)
23. **“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)
24. **“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)
25. **“Out of Equilibrium Temperature from Holography”**  
S. Nakamura and H. Ooguri.  
arXiv:1309.4089 [hep-th]  
Phys. Rev. D **88**, no. 12, 126003 (2013)
  26. **“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)
  27. **“Modular Constraints on Calabi-Yau Compactifications”**  
C. A. Keller and H. Ooguri.  
arXiv:1209.4649 [hep-th]  
Commun. Math. Phys. **324**, 107 (2013)
  28. **“Lectures on topological string theory”**  
H. Ooguri.  
Lect. Notes Phys. **851**, 233 (2012).
  29. **“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)
  30. **“Comments on Worldsheet Description of the Omega Background”**  
Y. Nakayama and H. Ooguri.  
arXiv:1106.5503 [hep-th]  
Nucl. Phys. B **856**, 342 (2012)
  31. **“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)
  32. **“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)
  33. **“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)
  34. **“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)
  35. **“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)
  36. **“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)



37. **“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)
38. **“Supersymmetric non-relativistic geometries in M-theory”**  
H. Ooguri and C. S. Park.  
arXiv:0905.1954 [hep-th]  
Nucl. Phys. B **824**, 136 (2010)
39. **“Emergent Calabi-Yau Geometry”**  
H. Ooguri and M. Yamazaki.  
arXiv:0902.3996 [hep-th]  
Phys. Rev. Lett. **102**, 161601 (2009)
40. **“Geometry As Seen By String Theory”**  
H. Ooguri.  
arXiv:0901.1881 [math.AG]  
Jpn. J. Math. (2009) 4, 95.
41. **“Crystal Melting and Toric Calabi-Yau Manifolds”**  
H. Ooguri and M. Yamazaki.  
arXiv:0811.2801 [hep-th]  
Commun. Math. Phys. **292**, 179 (2009)
42. **“The Entropic Principle and the Landscape in SUSY Gauge Theories”**  
H. Ooguri.  
Subnucl. Ser. **45**, 117 (2009).
43. **“Superconformal Chern-Simons Theories and the Squashed Seven Sphere”**  
H. Ooguri and C. S. Park.  
arXiv:0808.0500 [hep-th]  
JHEP **0811**, 082 (2008)
44. **“Current Correlators for General Gauge Mediation”**  
H. Ooguri, Y. Ookouchi, C. S. Park and J. Song.  
arXiv:0806.4733 [hep-th]  
Nucl. Phys. B **808**, 121 (2009)
45. **“Extremal  $N=(2,2)$  2D Conformal Field Theories and Constraints of Modularity”**  
M. R. Gaberdiel, S. Gukov, C. A. Keller, G. W. Moore and H. Ooguri.  
arXiv:0805.4216 [hep-th]  
Commun. Num. Theor. Phys. **2**, 743 (2008)
46. **“New Anomalies in Topological String Theory”**  
P. L. H. Cook, H. Ooguri and J. Yang.  
arXiv:0804.1120 [hep-th]  
Prog. Theor. Phys. Suppl. **177**, 120 (2009)
47. **“Metastable Vacua in Perturbed Seiberg-Witten Theories. Part 2. Fayet-Iliopoulos Terms and Kahler Normal Coordinates”**  
J. Marsano, H. Ooguri, Y. Ookouchi and C. S. Park.  
arXiv:0712.3305 [hep-th]  
Nucl. Phys. B **798**, 17 (2008)
48. **“Comments on the Holomorphic Anomaly in Open Topological String Theory”**  
P. L. H. Cook, H. Ooguri and J. Yang.  
arXiv:0706.0511 [hep-th]  
Phys. Lett. B **653**, 335 (2007)

49. **“Metastable Vacua in Perturbed Seiberg-Witten Theories”**  
H. Ooguri, Y. Ookouchi and C. S. Park.  
arXiv:0704.3613 [hep-th]  
Adv. Theor. Math. Phys. **12**, no. 2, 405 (2008)
50. **“Gauge Mediation in String Theory”**  
T. Kawano, H. Ooguri and Y. Ookouchi.  
arXiv:0704.1085 [hep-th]  
Phys. Lett. B **652**, 40 (2007)
51. **“Nondecoupling of Maximal Supergravity from the Superstring”**  
M. B. Green, H. Ooguri and J. H. Schwarz.  
arXiv:0704.0777 [hep-th]  
Phys. Rev. Lett. **99**, 041601 (2007)
52. **“Baby universes and string theory”**  
R. Dijkgraaf, R. Gopakumar, H. Ooguri and C. Vafa.  
Int. J. Mod. Phys. D **15**, 1581 (2006).
53. **“Direct Mediation of Meta-Stable Supersymmetry Breaking”**  
R. Kitano, H. Ooguri and Y. Ookouchi.  
hep-ph/0612139  
Phys. Rev. D **75**, 045022 (2007)
54. **“Quantum Entanglement of Baby Universes”**  
M. Aganagic, H. Ooguri and T. Okuda.  
hep-th/0612067  
Nucl. Phys. B **778**, 36 (2007)
55. **“Entropy of small black holes”**  
H. Ooguri.  
Prog. Theor. Phys. Suppl. **163**, 355 (2006).
56. **“Meta-Stable Supersymmetry Breaking Vacua on Intersecting Branes”**  
H. Ooguri and Y. Ookouchi.  
hep-th/0607183  
Phys. Lett. B **641**, 323 (2006)
57. **“Landscape of supersymmetry breaking vacua in geometrically realized gauge theories”**  
H. Ooguri and Y. Ookouchi.  
hep-th/0606061  
Nucl. Phys. B **755**, 239 (2006)
58. **“On the Geometry of the String Landscape and the Swampland”**  
H. Ooguri and C. Vafa.  
hep-th/0605264  
Nucl. Phys. B **766**, 21 (2007)
59. **“Baby universes in string theory”**  
R. Dijkgraaf, R. Gopakumar, H. Ooguri and C. Vafa.  
hep-th/0504221  
Phys. Rev. D **73**, 066002 (2006)
60. **“Hartle-Hawking wave-function for flux compactifications”**  
H. Ooguri, C. Vafa and E. P. Verlinde.  
hep-th/0502211  
Lett. Math. Phys. **74**, 311 (2005)
61. **“Black holes, q-deformed 2d Yang-Mills, and non-perturbative topological strings”**  
M. Aganagic, H. Ooguri, N. Saulina and C. Vafa.  
hep-th/0411280  
Nucl. Phys. B **715**, 304 (2005)

62. **“Black hole attractors and the topological string”**  
H. Ooguri, A. Strominger and C. Vafa.  
hep-th/0405146  
Phys. Rev. D **70**, 106007 (2004)
63. **“D-branes and phases on string world sheet”**  
T. Okuda and H. Ooguri.  
hep-th/0404101  
Nucl. Phys. B **699**, 135 (2004)
64. **“S duality and topological strings”**  
N. Nekrasov, H. Ooguri and C. Vafa.  
hep-th/0403167  
JHEP **0410**, 009 (2004)
65. **“On the world sheet derivation of large N dualities for the superstring”**  
N. Berkovits, H. Ooguri and C. Vafa.  
hep-th/0310118  
Commun. Math. Phys. **252**, 259 (2004)
66. **“Planar gravitational corrections for supersymmetric gauge theories”**  
R. Dijkgraaf, M. T. Grisaru, H. Ooguri, C. Vafa and D. Zanon.  
hep-th/0310061  
JHEP **0404**, 028 (2004)
67. **“Gravity induced C deformation”**  
H. Ooguri and C. Vafa.  
hep-th/0303063  
Adv. Theor. Math. Phys. **7**, no. 3, 405 (2003)
68. **“The C deformation of Gluino and nonplanar diagrams”**  
H. Ooguri and C. Vafa.  
hep-th/0302109  
Adv. Theor. Math. Phys. **7**, no. 1, 53 (2003)
69. **“Quantum aspects of Seiberg-Witten map in noncommutative Chern-Simons theory”**  
K. Kaminsky, Y. Okawa and H. Ooguri.  
hep-th/0301133  
Nucl. Phys. B **663**, 33 (2003)
70. **“Inside the horizon with AdS / CFT”**  
P. Kraus, H. Ooguri and S. Shenker.  
hep-th/0212277  
Phys. Rev. D **67**, 124022 (2003)
71. **“World sheet derivation of a large N duality”**  
H. Ooguri and C. Vafa.  
hep-th/0205297  
Nucl. Phys. B **641**, 3 (2002)
72. **“Penrose limit of N = 1 gauge theories”**  
J. Gomis and H. Ooguri.  
hep-th/0202157  
Nucl. Phys. B **635**, 106 (2002)
73. **“Boundary states for AdS(2) branes in AdS(3)”**  
P. Lee, H. Ooguri and J. w. Park.  
hep-th/0112188  
Nucl. Phys. B **632**, 283 (2002)

74. **“Permeable conformal walls and holography”**  
C. Bachas, J. de Boer, R. Dijkgraaf and H. Ooguri.  
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