

# 研究業績リスト

## a. 査読付き原著論文

1. T. Suyama,  
“A Systematic Study on Matrix Models for Chern-Simons-matter Theories,”  
Nucl. Phys. B **874**, 528 (2013).
2. T. Suyama,  
“On Large N Solution of N=3 Chern-Simons-adjoint Theories,”  
Nucl. Phys. B **867**, 887 (2013).
3. T. Suyama,  
“Supersymmetry Breaking in Chern-Simons-matter Theories,”  
JHEP **1207**, 008 (2012).
4. T. Suyama,  
“Eigenvalue Distributions in Matrix Models for Chern-Simons-matter Theories,”  
Nucl. Phys. B **856**, 497 (2012).
5. T. Suyama,  
“On Large N Solution of Gaiotto-Tomasiello Theory,”  
JHEP **1010**, 101 (2010).
6. S. -J. Rey, T. Suyama,  
“Exact Results and Holography of Wilson Loops in N=2 Superconformal (Quiver)  
Gauge Theories,”  
JHEP **1101**, 136 (2011).
7. T. Suyama,  
“On Large N Solution of ABJM Theory,”  
Nucl. Phys. B **834**, 50 (2010)
8. T. Suyama,  
“Notes on Matter in Horava-Lifshitz Gravity,”  
JHEP **1001**, 093 (2010).
9. K. Oda, T. Suyama and N. Yokoi,  
“Smoothing out Negative Tension Brane,”  
Phys. Lett. B **675**, 455 (2009).

10. S. J. Rey, T. Suyama and S. Yamaguchi,  
“Wilson Loops in Superconformal Chern-Simons Theory and Fundamental Strings  
in Anti-de Sitter Supergravity Dual,”  
JHEP **0903**, 127 (2009).
11. T. Suyama,  
“Quantum Effects on Tachyon Dynamics,”  
JHEP **0808**, 051 (2008).
12. M. Fukuma, K. I. Katayama and T. Suyama,  
“Notes on the Hamiltonian formulation of 3D Yang-Mills theory,”  
JHEP **0804**, 095 (2008).
13. H. Kawai and T. Suyama,  
“Some Implications of Perturbative Approach to AdS/CFT Correspondence,”  
Nucl. Phys. B **794**, 1 (2008).
14. H. Kawai and T. Suyama,  
“AdS/CFT Correspondence as a Consequence of Scale Invariance,”  
Nucl. Phys. B **789**, 209 (2008).
15. T. Suyama,  
“Non-trivial Tachyon Profiles in Low Energy Effective Theory,”  
JHEP **0705**, 057 (2007).
16. T. Suyama,  
“Tachyon condensation with B-field,”  
JHEP **0702**, 050 (2007).
17. T. Suyama,  
“CFT for closed string tachyon condensation,”  
Prog. Theor. Phys. **117**, 359 (2007).
18. C. Ahn, C. Kim, J. Park, T. Suyama and M. Yamamoto,  
“Deformed type 0A matrix model and super-Liouville theory for fermionic black  
holes,”  
JHEP **0601**, 124 (2006).
19. T. Suyama,  
“Closed string tachyon condensation in supercritical strings and RG flows,”  
JHEP **0603**, 095 (2006).

20. T. Suyama,  
“Tachyons in compact spaces,”  
JHEP **0505**, 065 (2005).
21. J. Park and T. Suyama,  
“Type 0A matrix model of black hole, integrability and holography,”  
Phys. Rev. D **71**, 086002 (2005).
22. T. Suyama and P. Yi,  
“A holographic view on matrix model of black hole,”  
JHEP **0402**, 017 (2004).
23. T. Suyama,  
“Closed string tachyons and RG flows,”  
JHEP **0210**, 051 (2002).
24. T. Suyama,  
“Deformation of CHS model,”  
Nucl. Phys. B **641**, 341 (2002).
25. H. Aoki, S. Iso and T. Suyama,  
“Orbifold matrix model,”  
Nucl. Phys. B **634**, 71 (2002).
26. T. Suyama,  
“Charged tachyons and gauge symmetry breaking,”  
JHEP **0202**, 033 (2002).
27. T. Suyama,  
“Properties of string theory on Kaluza-Klein Melvin background,”  
JHEP **0207**, 015 (2002).
28. T. Suyama,  
“Melvin background in heterotic theories,”  
Nucl. Phys. B **621**, 235 (2002).
29. T. Suyama,  
“Closed string tachyons in non-supersymmetric heterotic theories,”  
JHEP **0108**, 037 (2001).
30. T. Suyama,  
“Tachyon condensation and spectrum of strings on D-branes,”  
Prog. Theor. Phys. **106**, 1017 (2001).

31. T. Suyama,  
“Description of intersecting branes via tachyon condensation,”  
Phys. Lett. B **488**, 83 (2000).
32. T. Suyama,  
“Monopoles and black hole entropy,”  
Mod. Phys. Lett. A **15**, 271 (2000).
33. T. Suyama and A. Tsuchiya,  
“Exact results in  $N(c) = 2$  IIB matrix model,”  
Prog. Theor. Phys. **99**, 321 (1998).

**b. 査読付き国際会議プロシーディングス**

1. T. Suyama,  
“Tachyons in compact spaces,”  
AIP Conf. Proc. **805**, 383 (2006).
2. T. Suyama,  
“Black hole formation via tachyon condensation,”  
Int. J. Mod. Phys. A **23**, 2176 (2008).

**c. 著書**

特になし

**d. 解説・総説**

特になし

**e. 特許**

特になし

f. 国内外での学会・研究集会等での招待講演、受賞など

国際研究会での招待講演

1. “Stringy Geometry Seen by Wilson Loops,”  
in “The CQeST Spring Workshop on Higher Spins and Stringy Geometry”  
(March 28-31, 2012), CQeST, Korea.
2. “On Large N Solution of Gaiotto-Tomasiello theory,”  
in “Autumn Symposium on String/M-theory” (October 14-17, 2010)  
KIAS, Korea.
3. “Wilson Loops in Gauge Theories with Product Gauge Group,”  
in “Joint SKKU/CQeST Workshop on String/M-theory and related topics”  
(June 12-13, 2009), Sungkyunkwan University, Korea.
4. “Exact Results and Holography of Wilson Loops in N=2 Superconformal Gauge  
Theories,”  
in “Focus Program on Liouville theory, Integrability and Branes (5) ”  
(March 18-30, 2009), APCTP, Pohang, Korea.
5. “Wilson Loops in ABJM,”  
in “YongPyong Astro-Particle and Conformal Topical Physics 2009”,  
(February 23-27, 2009), YongPyong, Korea.
6. “AdS/CFT Correspondence from Perturbative Viewpoint,”  
in ”YongPyong Astro-Particle and Conformal Topical Physics 2008”,  
(February 25-29, 2008), YongPyong, Korea.
7. “Closed String Tachyon Condensation,”  
in “Mini-workshop on String theory” (June 28-29, 2006),  
Peking University, China.
8. “On Deformed Matrix Model,”  
in ”Liouville, Integrability and Branes” (December 12-17, 2005)  
APCTP, Pohang, Korea.
9. “Matrix Model of Witten’s Black Hole,”  
in ”Common Trends in String Theories and Integrable Theories” (March 4-5, 2005),  
Ewha Womans University, Korea.
10. “String Theory on Non-supersymmetric Background,”  
in ”KIAS Workshop on Strings and Branes” (May 20-31, 2002)  
KIAS, Korea.

11. “Melvin Background in Heterotic Theories,”  
in ”Solitonic Objects in String and Field Theories” (September 10-14, 2001), KIAS,  
Korea.

#### 国内研究会での招待講演

1. “On Matrix Models of Chern-Simons-matter Theories,”  
日露共同研究会ミニワークショップ (March 23-25, 2013), ヴィアーレ大阪.
2. “Eigenvalue Distributions of Matrix Models for Chern-Simons-matter Theories,”  
行列模型とその周辺 (February 20-21, 2012), 立教大学.
3. “Eigenvalue Distributions of Matrix Models for Chern-Simons-matter Theories,”  
静岡素粒子集中セミナー (January, 6-7, 2012), 静岡大学.
4. “On Large N Solution of ABJM Theory,”  
Gauge/Gravity Correspondence and Wilson Loop (February 22-23, 2010), 名古屋  
大学.
5. “AdS/CFT Correspondence from Perturbative Viewpoint,”  
KEK Theory Workshop 2008 (March 4-6, 2008), KEK.

#### 受賞

第3回素粒子メダル奨励賞受賞 (2008年3月)  
授賞論文: “Properties of string theory on Kaluza-Klein Melvin background”