List of research papers
Hirotaka Yoshino

I. Refereed research papers

“Extension of photon surfaces and its area: Static and stationary spacetimes,” 

[I-2] T. Shiromizu, Y. Tomikawa, K. Izumi, and H. Yoshino, 
Area bound for a surface in a strong gravity region,” 

[I-3] H. Yoshino, 
“On uniqueness of static photon surface: Perturbative approach,” 

[I-4] H. Yoshino and H. Kodama, 
“Bosenova and Axiverse,” 
Class. Quantum Grav. 32, 214001 (Invited contribution to the Focus Issue on “Black holes and fundamental fields”), arXiv:1505.00714 [gr-qc].

[I-5] T. Igata, H. Ishihara, and H. Yoshino, 
“Integrability of Particle System around a Ring Source as the Newtonian Limit of a Black Ring,” 

[I-6] H. Yoshino and H. Kodama, 
“Probing the string axiverse by gravitational waves from Cygnus X-1,” 

[I-7] H. Yoshino and H. Kodama, 
“Gravitational radiation from an axion cloud around a black hole: Superradiant phase,” 

[I-8] M. Matsumoto, H. Yoshino and H. Kodama, 
“Time evolution of a thin black ring via Hawking radiation,” 

[I-9] Hirotaka Yoshino and Hideo Kodama, 
“Bosenova collapse of axion cloud around a rotating black hole,” 

[I-10] Hirotaka Yoshino, 
“Black hole initial data in Gauss-Bonnet gravity: Momentarily static case,” 
M. Shibata and H. Yoshino,  
“Bar-mode instability of rapidly spinning black hole in higher dimensions: Numerical simulation in general relativity,”  

M. Shibata and H. Yoshino,  
“Nonaxisymmetric instability of rapidly rotating black hole in five dimensions,”  

K. i. Nakao, H. Abe, H. Yoshino and M. Shibata,  
“Maximal slicing of D-dimensional spherically-symmetric vacuum spacetime,”  

H. Yoshino and M. Shibata,  
“Higher-dimensional numerical relativity: Formulation and code tests,”  

H. Yoshino,  
“On the existence of a static black hole on a brane,”  

H. Yoshino,  
“Highly distorted apparent horizons and the hoop conjecture,”  

H. Yoshino and T. Shiromizu,  
“Collision of high-energy closed strings: Formation of a ring-like apparent horizon,”  

H. Yoshino, A. Zelnikov and V. P. Frolov,  
“Apparent horizon formation in the head-on collision of gyratons,”  

H. Yoshino, T. Shiromizu and M. Shibata,  
“Close-slow analysis for head-on collision of two black holes in higher dimensions: Bowen-York initial data,”  

T. Shiromizu and H. Yoshino,  
“Positive energy theorem implies constraints on static steller models,”  

Y. Iwashita, T. Kobayashi, T. Shiromizu and H. Yoshino,  
“Holographic entanglement entropy of de Sitter braneworld,”  

H. Yoshino and R. B. Mann,  
“Black hole formation in the head-on collision of ultrarelativistic charges,”  
[I-23] T. Shiromizu, S. Yamada and H. Yoshino,
“On existence of matter outside a static black hole,”

[I-24] T. Shiromizu, S. Fujii, C. de Rham and H. Yoshino,
“High-energy effective theory for orbifold branes,”

[I-25] C. de Rham, S. Fujii, T. Shiromizu and H. Yoshino,
“High-energy effective theory for a bulk brane,”

[I-26] H. Yoshino, T. Shiromizu and M. Shibata,
“The close limit analysis for head-on collision of two black holes in higher dimensions: Brill-Lindquist initial data,”

[I-27] Y. Iwashita, H. Yoshino and T. Shiromizu,
“Gravitational collapse disturbs the dS/CFT correspondence?,”

[I-28] E. Mitsuda, H. Yoshino and A. Tomimatsu,
“Electromagnetic radiation due to naked singularity formation in self-similar gravitational collapse,”

[I-29] H. Yoshino and V. S. Rychkov,
“Improved analysis of black hole formation in high-energy particle collisions,”

[I-30] H. Yoshino,
“Lightlike limit of the boosted Kerr black holes in higher-dimensional spacetimes,”

[I-31] H. Yoshino and Y. Nambu,
“Black ring formation in particle systems,”

[I-32] H. Yoshino, T. Ohba and A. Tomimatsu,
“Static black holes with a negative cosmological constant: Deformed horizon and anti-de Sitter boundaries,”

[I-33] H. Yoshino and Y. Nambu,
“Black hole formation in the grazing collision of high-energy particles,”

[I-34] H. Yoshino and Y. Nambu,
“High-energy head-on collisions of particles and hoop conjecture,”
II. Papers in preparation

[II-1] H. Yoshino, K. Takahashi, and K.-i. Nakao,
“How does a collapsing star look?,”
to be submitted

III. Review papers

[II-1] Hideo Kodama and Hirotaka Yoshino,
“Axiverse and Black Hole,”

[II-2] H. Yoshino and M. Shibata,
“Exploring Higher-Dimensional Black Holes in Numerical Relativity,”

[II-3] H. Yoshino and M. Shibata,
“Higher-Dimensional Numerical Relativity: Current Status,”

[II-4] H. Yoshino and Y. Nambu,
“Black hole formation in the grazing collision of high-energy particles,”
Prepared for 10th Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation and Relativistic Field Theories (MG X MMIII), Rio de Janeiro, Brazil, 20-26 Jul 2003