

RESUME (BUMHOON LEE)



BUM-HOON LEE

Birth Date: October 15, 1956 Married Sex : Male
Department of Physics/Center for Quantum Space Time, Sogang University
35 Baekbeom-ro Mapo-gu Seoul 04107, Republic of Korea
Tel: (O)+82-2-705-7865 (Mobile) +82-10-6274-8427 Fax:+82-2-704-9031
E-mail: bhl@sogang.ac.kr Home Page : <https://fields.sogang.ac.kr>

[1] Education

B.S. Seoul National University (1976.02), M.S. Seoul National University (1978.02)
Ph.D. Columbia University (1989.01)

[2] Employment

Research Professor, Center for Quantum Space Time(CQeST), Sogang U. (2022.03 ~ 2023.02)
Emeritus Professor, Dept. of Physics, Sogang U. (2022.03 ~ Present)
Distinguished Research Professor, Sogang U. (2022.03 ~ 2023.02)
Dean, School of Natural Sciences, Sogang U.(2017-2019);
Director, Center for Quantum SpaceTime, Sogang U.(2005-2020)
Chairman, Physics Dept, Sogang Univ. (1999-2001);
Associate & Full Prof., Dept of Physics, Sogang U(1996.09 - 2022.02),
Assistant & Associate Prof., Dept Physics, Hanyang U(1990.09-1996.08);
Research Associates, Univ. N. Carolina (1989),Theo Phys Inst, U. Minnesota (1989-1991);
Officer, Lecturer, Korean Air Force Academy(1978-1982)

[3] Activity Careers

Korean Physical Society (KPS) (member since 1980)

President(2019-2020); Vice President (2013-2014,2017-2018); Trustee Board Member (2013-2022);
Chair(2011-2012) comm. Leading Topics Promotion;
Chair (2007) Baekchon Award comm;
Chair(2007-2008) & Steering Comm Member (1995-1997, 1999-2003), Particle Phys Div;

Asia Pacific Center for Theoretical Physics (APCTP)

President(2015-2016), Trustee (13-15,19-20); Senior Advisory Group (22.04.01~24.03.31)
Science Council(16~22, Nov.26, 2022~Nov.25 2025), Auditor (10-13); General Council member (05-10);
Chair(09-10), Member(00-01,03-08), Korean Comm. for APCTP in KPS;
International Action Committee member(1997-98) ,

Korean Federation of Science & Technology Societies (KOFST)

Auditor (2022-2024); Trustee (2019-2020);

Funding Agency : (National Research Foundation(NRF), Korea Science and Engineering Foundation(KOSEF))

2010.5-2014.5 Review Board, Division of Natural Sciences, NRF in Korea

2004.9-2005.8 Research Area Expert Member (non-standing), Mathematical Science Division, KOSEF

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Governmental Committee (Ministry of Science and ICT)

Civilian Cochair of Science and Technology R&D Board (2019-2021)
Heavy Ion Accelerator Promotion Committee (2019-21); Evaluation Committee for Government Invested Institutes(2016);
Basic Research Project Driving Committee (2012-14, 2015-17);
Consultation Committee on Basic Research Promotion(2015-17); Korea-CERN Coop & Mod Comm (2006-14);
Research Activity Monitoring Committee (2008), and many other committees

Korea Foundation for the Advancement of Science & Creativity

Science and Technology Specialized Broadcasting Evaluation Committee(2016~ 2018)
Science Specialized Broadcasting Planning Committee(2015)

Korea Council for High Energy Physics (KCHPEP)

President (2013.4 – 2015.3, 2015.4 – 2017.3); Member, Planning Committee 2006.5 – 2010.4

Korean SCOAP3 Association (Open Access Publishing in Particle Physics)

President (2017 – 2019)

POSCO CheongAm Foundation

CheongAm Science Prize Selection Committee(2021~)
Chair, Science Fellowship Review Committee (2017 – 2020)

EDITORIAL BOARD MEMBER (Editor)

2011–present, INT J OF MOD PHYS A (IJMPA); MODERN PHYS LETTERS A(MPLA) (WORLD SCIE PUB, Singapore)

AsiaHEP

Korean Representative Member (2012~2018)

FKPPL (France-Korea Particle Physics Laboratory)

Korean Coordinator (2012~2018)

Joint Institute of Nuclear Research, Russia

Scientific Council Member (2023~); Scientific Council Member (2018~2023)

[4] Honors and Prize,

SungBong Prize, Korean Physical Society, 2023
Minister of Science, Technology & Information Citation, Contribution to the Research Ethics, (2022)
Presidential Medal 2022
Prime Minister Citation, 2017
Minister of Education, Science & Technology Citation, Contribution to the Basic Research Promotion, (2012)

[5] Research Key Words:

Subjects : Field & String Theories; Gravity & Cosmology,

[6] List of the published papers in the journals

Total number of published papers 157; (in reverse order in time)

157) Is cosmic birefringence model-dependent?

Lu Yin(APCTP,Pohang), Joby Kochappan(APCTP, Pohang), Tuhin Ghosh(Bhubaneswar, NISER), Bum-Hoon Lee(CQUeST, and Sogang U.)

Published in: JCAP 10 (2023) 007 **Published 5 October 2023**

e-Print: 2305.07937 [astro-ph.CO]

156) WIMPs in Dilatonic Einstein Gauss-Bonnet Cosmology

Anirban Biswas(Yonsei U.), Arpan Kar(Sogang U.), Bum-Hoon Lee, Hocheol Lee, Wonwoo Lee, Stefano Scopel, Liliana Velasco-Sevilla, Lu Yin.

Published in: JCAP 08 (2023) 024 **Published: Aug 11, 2023**

e-Print: 2303.05813 [hep-ph] (Mar 10, 2023) CQUeST-2023-0720

DOI <https://doi.org/10.1088/1475-7516/2023/08/024>

155) Homoclinic orbit and the violation of the chaos bound around a black hole with anisotropic matter fields

Soyeon Jeong(Sogang U.), Bum-Hoon Lee(Sogang U.), Hocheol Lee(Sogang U.), Wonwoo Lee(Sogang U.)
(Jan 28, 2023)

Published in: Phys.Rev.D 107 (2023) 10, 104037

Published: May 15, 2023

e-Print: [2301.12198](https://arxiv.org/abs/2301.12198)[gr-qc]

DOI: [10.1103/PhysRevD.107.104037](https://doi.org/10.1103/PhysRevD.107.104037)(publication)

Report number: CQUeST-2023-0718

154) Violation of bound on chaos for charged probe in Kerr-Newman-AdS black hole

Bogeun Gwak(Dongguk U.), Naoto Kan(Dongguk U.), Bum-Hoon Lee(Sogang U. and CQUeST, Seoul), Hocheol Lee(Sogang U.) (Mar 14, 2022)

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Published in: JHEP 09 (2022) 026 • e-Print: 2203.07298 [gr-qc]

Published: Sep 5, 2022 DOI: 10.1007/JHEP09(2022)026

[https://doi.org/10.1007/JHEP09\(2022\)026](https://doi.org/10.1007/JHEP09(2022)026)

153) Investigations of strong cosmic censorship in 3-dimensional black strings Jeongwon Ho, Wontae Kim, Bum-Hoon Lee

Published in: JHEP 08 (2022) 018 • e-Print: 2202.12561 [gr-qc]

[https://doi.org/10.1007/JHEP08\(2022\)018](https://doi.org/10.1007/JHEP08(2022)018) Published: Aug 1, 2022

e-Print: [2202.12561](https://arxiv.org/abs/2202.12561)[gr-qc] DOI:[10.1007/JHEP08\(2022\)018](https://doi.org/10.1007/JHEP08(2022)018)

152) Gravitational waves from the vacuum decay with LISA *

Bum-Hoon Lee, Wonwoo Lee, Dong-han Yeom, Lu Yin

Published in: Chin.Phys.C 46 (2022) 7, 075101

Published online 15 April 2022 e-Print: 2106.07430 [gr-qc]

DOI:[10.1088/1674-1137/ac5d2a](https://doi.org/10.1088/1674-1137/ac5d2a)

151) Is local $H_{\text{eff}} = 0$ at odds with dark energy EFT?

Bum-Hoon Lee, Wonwoo Lee, Eoin Ó. Colgáin(CQUeST), M.M. Sheikh-Jabbari(IPM, Tehran), Somyadip Thakur(CQUeST) (Feb 8, 2022)

Published in: JCAP 04 (2022) 04, 004 p.1~p.32

Received Feb 16, 2022, Accepted March 15, Published April 4, 2022

• e-Print: 2202.03906 [astro-ph.CO]

<https://doi.org/10.1088/1475-7516/2022/04/004>

150) Generalized holographic cosmology: low-redshift observational constraint

Sunly Khimphun(KH), Bum-Hoon Lee, Gansukh Tumurtushaa

Published in: JHEP 10 (2021) 232

• e-Print: 2012.15219 [gr-qc]

[https://doi.org/10.1007/JHEP10\(2021\)232](https://doi.org/10.1007/JHEP10(2021)232)

RESUME (BUMHOON LEE)

149) Shadow cast by a rotating black hole with anisotropic matter

Bum-Hoon Lee, Wonwoo Lee, Yun Soo Myung

Published in: Phys.Rev.D 103 (2021) 6, 064026

• e-Print: 2101.04862 [gr-qc]

<https://doi.org/10.1103/PhysRevD.103.064026>

148) Observational Constraints on the Cosmology with Holographic Dark Fluid

Da Huang, B-HL, Gansukh Tumurtushaa, Lu Yin, Yun-Long Zhang

Published in: Phys.Dark Univ. 32 (2021) 100842

• e-Print: 2101.02978 [astro-ph.CO]

<https://doi.org/10.1016/j.dark.2021.100842>

147) Rotating black holes with an anisotropic matter field

Hyeong-Chan Kim, B-HL, Wonwoo Lee, Youngone Lee (Dec 20, 2019)

Published in: Phys.Rev.D 101 (2020) 6, 064067

e-Print: 1912.09709 [gr-qc]

DOI: <https://doi.org/10.1103/PhysRevD.101.064067>

Received 30 December 2019 Accepted 11 March 2020 **Published 30 March 2020**

146) Emergent Dark Universe and the Swampland Criteria

Rong-Gen Cai, Sunly Khimphun, Bum-Hoon Lee, Sichun Sun, Gansukh Tumurtushaa, Yun-Long Zhang (Kyoto U. & APCTP). Dec 26, 2018. 16 pp.

Published in Phys.Dark Univ. 26 (2019) 100387

DOI: [10.1016/j.dark.2019.100387](https://doi.org/10.1016/j.dark.2019.100387)

e-Print: [arXiv:1812.11105](https://arxiv.org/abs/1812.11105) [hep-th] | [PDF](#)

December 2019

145) Expanded evasion of the black hole no-hair theorem in dilatonic Einstein-Gauss-Bonnet theory

Bum-Hoon Lee, Wonwoo Lee, Daeho Ro. Sep 15, 2018. 10 pp.

Published in Phys.Rev. D99 (2019) no.2, 024002

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DOI: [10.1103/PhysRevD.99.024002](https://doi.org/10.1103/PhysRevD.99.024002)

e-Print: [arXiv:1809.05653](https://arxiv.org/abs/1809.05653) [gr-qc] | [PDF](#)

Receiv 21 September, 2018; **Published 2 January, 2019**

144-4-18) Constraints on the reheating parameters after Gauss-Bonnet inflation from primordial gravitational waves

Seoktae Koh, Bum-Hoon Lee, Gansukh Tumurtushaa Jul 12, 2018. 14 pp.

Published in Phys.Rev. D98 (2018) no.10, 103511

DOI: [10.1103/PhysRevD.98.103511](https://doi.org/10.1103/PhysRevD.98.103511)

e-Print: [arXiv:1807.04424](https://arxiv.org/abs/1807.04424) [astro-ph.CO] | [PDF](#)

Receiv 17 July, 2018; **Published 12 November, 2018**

143) On microscopic structure of the QCD vacuum

D.G. Pak, Bum-Hoon Lee, Youngman Kim, Takuya Tsukioka, P.M. Zhang. Mar 28, 2017. 6 pp.

Published in Phys.Lett. B780 (2018) 479-484

DOI: [10.1016/j.physletb.2018.03.040](https://doi.org/10.1016/j.physletb.2018.03.040)

e-Print: [arXiv:1703.09635](https://arxiv.org/abs/1703.09635) [hep-th] | [PDF](#)

Receiv Dec 17, 2017; Accept March 15, 2018; **Published March 19, 2018**

142) Stable spherically symmetric monopole field background in a pure QCD

Youngman Kim (IBS), Bum-Hoon Lee, D.G. Pak, Takuya Tsukioka

Published in Progr. Theor. Exp. Phys. 2018, 013B02

DOI: [10.1093/ptep/ptx187](https://doi.org/10.1093/ptep/ptx187)

e-Print: [arXiv:1605.09155](https://arxiv.org/abs/1605.09155) [hep-th] | [PDF](#)

Receiv Aug 17, 2017; Accept Nov 30, 2017; **Published January 31, 2018**

141) Rindler Fluid with Weak Momentum Relaxation

Sunly Khimphun, Bum-Hoon Lee, Chanyong Park, Yun-Long Zhang

Published in JHEP 1801 (2018) 058

DOI: [10.1007/JHEP01\(2018\)058](https://doi.org/10.1007/JHEP01(2018)058)

RESUME (BUMHOON LEE)

e-Print: [arXiv:1705.05078](https://arxiv.org/abs/1705.05078) [hep-th] | [PDF](#)

Received: July 9, Accepted: December 29, 2017 **Published: January 12, 2018**

140) Vacua and walls of mass-deformed W_{vN} nonlinear sigma models on $SO(2N)/U(N)$

Bum-Hoon Lee, Chanyong Park, Sunyoung Shin

Published in **Phys.Rev. D96 (2017) no.10, 105017**

DOI: [10.1103/PhysRevD.96.105017](https://doi.org/10.1103/PhysRevD.96.105017)

e-Print: [arXiv:1708.05243](https://arxiv.org/abs/1708.05243)

Published 27 November 2017

139) Tunneling decay of false vortices with gravitation

Eric Dupuis, Yan Gobeil, Bum-Hoon Lee, Wonwoo Lee, Richard MacKenzie, Manu B. Paranjape, Urjit A. Yajnik, Dong-han Yeom

Published in **JHEP 1711 (2017) 028**

DOI: [10.1007/JHEP11\(2017\)028](https://doi.org/10.1007/JHEP11(2017)028)

e-Print: [arXiv:1709.03839](https://arxiv.org/abs/1709.03839)

Rec: September 15, Accept: October 23, 2017 **Published: November 8, 2017**

138) Anisotropic dyonic black brane and its effects on holographic conductivity Sunly Khimphun, Bum-Hoon Lee, Chanyong Park, Yun-Long Zhang

Published in **JHEP 1710 (2017) 064**

DOI: [10.1007/JHEP10\(2017\)064](https://doi.org/10.1007/JHEP10(2017)064)

e-Print: [arXiv:1705.00862](https://arxiv.org/abs/1705.00862)

Rece: May 15 Rev: August 20 Accept: September 27, **Published: October 10, 2017**

137) Quantum stability of nonlinear wave type solutions with intrinsic mass parameter in QCD

Youngman Kim, Bum-Hoon Lee, D.G. Pak, Chanyong Park, Takuya Tsukioka

Published in **Phys.Rev. D96 (2017) no.5, 054025**

DOI: [10.1103/PhysRevD.96.054025](https://doi.org/10.1103/PhysRevD.96.054025)

e-Print: [arXiv:1607.02083](https://arxiv.org/abs/1607.02083)

(Received 27 July 2017; **published 25 September 2017**)

RESUME (BUMHOON LEE)

136) Reconstruction of the Scalar Field Potential in Inflationary Models with a Gauss-Bonnet term

Seoktae Koh, Bum-Hoon Lee, Gansukh Tumurtushaa

Published in **Phys.Rev. D95 (2017) no.12, 123509**

DOI: [10.1103/PhysRevD.95.123509](https://doi.org/10.1103/PhysRevD.95.123509)

e-Print: [arXiv:1610.04360](https://arxiv.org/abs/1610.04360) [gr-qc] | [PDF](#)

Vol. 95, Iss. 12 — 15 June 2017

135) Observational constraints on inflation with the nonlinear sigma fields in light of Plank 2015

Seoktae Koh, Bum-Hoon Lee , Gansukh Tumurtushaa . Dec 16, 2015. 13 pp.

Published in **J.Korean Phys. Soc. 70 (2017) no.8, 822-829**

DOI: [10.3938/jkps.70.822](https://doi.org/10.3938/jkps.70.822)

e-Print: [arXiv:1512.05062](https://arxiv.org/abs/1512.05062) [gr-qc] | [PDF](#)

(First Online: 29 April 2017)

134) Gauge invariant gluon spin operator for spinless nonlinear wave solutions Bum-Hoon Lee, D.G. Pak (Nankai, CIM & APCTP& CQUeST), Takuya Tsukioka (Bukkyo U., Kyoto), P.M. Zhang (Lanzhou, Inst. Modern Phys.), Youngman Kim (IBS, Daejeon)

Published in Int.J.Mod.Phys. A32 (2017) no.11, 1750062

DOI: [10.1142/S0217751X17500622](https://doi.org/10.1142/S0217751X17500622)

e-Print: [arXiv:1605.09154](https://arxiv.org/abs/1605.09154) [hep-th] | [PDF](#)

Rec 6 Feb, 2017, Rev 28 Feb, Accepted 14 March, Published 7 April, 2017

Volume 32, Issue 11, 20 April 2017

133) Holographic trace anomaly at finite temperature.

Bum-Hoon Lee, Siyoung Nam, Chanyong Park

Published in **J.Korean Phys.Soc. 70 (2017) no.1, 34-41**

DOI: [10.3938/jkps.70.34](https://doi.org/10.3938/jkps.70.34)

(First Online: 19 January 2017)

132) Matrix models from localization of five-dimensional supersymmetric noncommutative U(1) gauge

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theory

Bum-Hoon Lee , Daeho Ro , Hyun Seok Yang

Published in JHEP 1701 (2017) 039

DOI: [10.1007/JHEP01\(2017\)039](https://doi.org/10.1007/JHEP01(2017)039)

e-Print: [arXiv:1609.00753](https://arxiv.org/abs/1609.00753) [hep-th] | [PDF](#)

(Received: September 9, 2016, Accepted: December 30, 2016

Published: January 10, 2017)

131) Phase transition for black holes in Dilatonic Einstein-Gauss-Bonnet theory of gravitation

Sunly Khimphun (Sogang U.), Bum-Hoon Lee (APCTP, Pohang & CQUeST, Seoul & Sogang U.), Wonwoo Lee (CQUeST, Seoul). May 24, 2016. 24 pp.

Published in **Phys.Rev. D94 (2016) 104067**

DOI: [10.1103/PhysRevD.94.104067](https://doi.org/10.1103/PhysRevD.94.104067)

e-Print: [arXiv:1605.07377](https://arxiv.org/abs/1605.07377) [gr-qc] | [PDF](#)

(Received 7 October 2016; published 28 November 2016)

Vol. 94, Iss. 10 — 15 November 2016

130) Fubini instantons in Dilatonic Einstein-Gauss-Bonnet theory of gravitation

Wonwoo Lee, Bum-Hoon Lee. Daeho Ro (APCTP),

Published in **Phys.Lett. B762 (2016) 535-542**

DOI: [10.1016/j.physletb.2016.09.013](https://doi.org/10.1016/j.physletb.2016.09.013)

e-Print: [arXiv:1607.01125](https://arxiv.org/abs/1607.01125) [hep-th] | [PDF](#)

Rec 13/7 2016, Rev 19/8, Ac 9/9, Available online 14 September 2016

Volume 762, 10 November 2016, Pages 535-542

129) Conductivities in an anisotropic medium

Sunly Khimphun, Bum-Hoon Lee (Sogang& APCTP), Chanyong Park (APCTP& POSTECH). Apr 1, 2016. 22 pp.

Published in **Phys.Rev. D94 (2016) no.8, 086005**

DOI: [10.1103/PhysRevD.94.086005](https://doi.org/10.1103/PhysRevD.94.086005)

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e-Print: [arXiv:1604.00156](https://arxiv.org/abs/1604.00156) [hep-th] | [PDF](#)

(Received 13 May 2016; Accepted Oct.2, 2016 published 14 October 2016)

Vol. 94, Iss. 8 — 15 October 2016

128) Instability of Charged Anti-de Sitter Black Holes

Bogeun Gwak, Bum-Hoon Lee, Daeho Ro. Sep 11, 2015. 12 pp.

APCTP-PRE2015-024

Published in **Phys.Lett. B761 (2016) 437-443**

DOI: [10.1016/j.physletb.2016.08.015](https://doi.org/10.1016/j.physletb.2016.08.015)

e-Print: [arXiv:1509.03493](https://arxiv.org/abs/1509.03493) [gr-qc] | [PDF](#)

Rec 21 June 2016 Accept 9 August 2016 Available online 12 August 2016

Volume 761, 10 October 2016, Pages 437-443

127) The Upper Bound of Radiation Energy in the Myers-Perry Black Hole Collision

Bogeun Gwak, Bum-Hoon Lee. Mar 7, 2016. 12 pp.

Published in **JHEP 1607 (2016) 079**

DOI: [10.1007/JHEP07\(2016\)079](https://doi.org/10.1007/JHEP07(2016)079)

e-Print: [arXiv:1603.02103](https://arxiv.org/abs/1603.02103) [gr-qc] | [PDF](#)

Received: April 16, 2016 Accepted: May 16, 2016 Published: July 14, 2016

126) Primordial gravitational waves from the space-condensate inflation model

Seoktae Koh (Jeju Nat.U., Korea), Bum-Hoon Lee (APCTP, Pohang & CQUeST, Seoul & Sogang U.), Gansukh Tumurtushaa (CQUeST, Seoul & Sogang U.). Dec 16, 2015. 12 pp.

Published in **Phys.Rev. D93 (2016) no.8, 083518**

DOI: [10.1103/PhysRevD.93.083518](https://doi.org/10.1103/PhysRevD.93.083518)

e-Print: [arXiv:1512.05072](https://arxiv.org/abs/1512.05072) [gr-qc] | [PDF](#)

Received 22 December 2015; published 20 April 2016

Vol. 93, Iss. 8 — 15 April 2016

125) Thermodynamics of Three-dimensional Black Holes via Charged Particle Absorption Bogeun Gwak,

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Bum-Hoon Lee

Published in **Phys.Lett. B755 (2016) 324-327**

DOI: [10.1016/j.physletb.2016.02.028](https://doi.org/10.1016/j.physletb.2016.02.028)

e-Print: [arXiv:1510.08215](https://arxiv.org/abs/1510.08215) [gr-qc] | [PDF](#)

Received 11 Feb 2016 Accepted 12 Feb 2016 Available online 18 Feb 2016

Volume 755, 10 April 2016, Pages 324-327

124) Chaos in Lifshitz Spacetimes

Xiaojian Bai, Bum-Hoon Lee, Taeyoon Moon, Junde Chen

Published in **J.Korean Phys.Soc. 68 (2016) no.5, 639-644**

DOI: [10.3938/jkps.68.639](https://doi.org/10.3938/jkps.68.639)

e-Print: [arXiv:1406.5816](https://arxiv.org/abs/1406.5816) [hep-th] | [PDF](#)

Received 29 January 2016 Published March 2016

123) Cosmic Censorship of Rotating Anti-de Sitter Black Hole with a Probe

Bogeun Gwak, Bum-Hoon Lee

Published in **JCAP 1602 (2016) 015**

DOI: [10.1088/1475-7516/2016/02/015](https://doi.org/10.1088/1475-7516/2016/02/015)

e-Print: [arXiv:1509.06691](https://arxiv.org/abs/1509.06691) [gr-qc] | [PDF](#)

Received Nov 10,2015 Accepted Jan 21, 2016 Published February 5, 2016

122-11-15) Revisiting slow-roll inflation in nonminimal derivative coupling with potentials, Yun Soo Myu

ng, Taeyoon Moon Bum-Hoon Lee

e-Print: [arXiv:1505.04027](https://arxiv.org/abs/1505.04027) [gr-qc] [PDF](#)

Published in JCAP 1510 (2015) 10, 007

DOI: [10.1088/1475-7516/2015/10/007](https://doi.org/10.1088/1475-7516/2015/10/007)

e-Print: [arXiv:1505.04027](https://arxiv.org/abs/1505.04027) [gr-qc] | [PDF](#)

Rec May 21, Rev August 24, Accepted Sept 1, Published October 2, 2015

121-10-15) Instability of Black Holes with a Gauss–Bonnet Term

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Wha-Keun Ahn, Bogeun Gwak (CQeST, Seoul), Bum-Hoon Lee (CQeST, Seoul & Sogang U. & APCTP, Pohang), Wonwoo Lee (CQeST, Seoul). Dec 12, 2014. 20 pp.

Published in Eur.Phys.J. C75 (2015) 8, 372

DOI: [10.1140/epjc/s10052-015-3568-5](https://doi.org/10.1140/epjc/s10052-015-3568-5)

e-Print: [arXiv:1412.4189](https://arxiv.org/abs/1412.4189) [gr-qc] | [PDF](#)

Rec: 30 March / Acc: 13 July / Published online: 15 August 2015

First Online: 15 August 2015

120-9-15) Instantons near a tachyonic top in an anti de Sitter and the no-boundary regulator

Bum-Hoon Lee (CQeST, Seoul & APCTP, Pohang), Wonwoo Lee, Daeho Ro (CQeST, Seoul), Dong-han Yeom (CQeST, Seoul & Kyoto U., Yukawa Inst., Kyoto & Taiwan, Natl. Taiwan U.). Sep 12, 2014. 16 p.

Published in Class.Quant.Grav. 32 (2015) 16, 165013

YITP-14-68

DOI: [10.1088/0264-9381/32/16/165013](https://doi.org/10.1088/0264-9381/32/16/165013)

e-Print: [arXiv:1409.3728](https://arxiv.org/abs/1409.3728) [hep-th] | [PDF](#)

Rec 18 Jan 2015, rev 3 June Accepted 26 June, Published 28 July 2015

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Classical and Quantum Gravity, Volume 32, Number 16

119-8-15) Dynamics of magnetic shells and information loss problem

Bum-Hoon Lee, Wonwoo Lee, Dong-han Yeom (Taiwan, Natl. Taiwan U.).

Published in **Phys.Rev. D92 (2015) 2, 024027**

DOI: [10.1103/PhysRevD.92.024027](https://doi.org/10.1103/PhysRevD.92.024027)

e-Print: [arXiv:1502.07471](https://arxiv.org/abs/1502.07471) [hep-th] | [PDF](#)

(Received 27 April 2015; Published 15 July 2015)

118-7-15) 18. The nucleation of false vacuum bubbles with compact geometries Bum-Hoon Lee, Chul H. Lee (Hanyang U.), Wonwoo Lee, Changheon Oh (Nost Strategy Inst.).

Published in Int. J. Mod. Phys. A30 (2015) 1550110

DOI: [10.1142/S0217751X15501109](https://doi.org/10.1142/S0217751X15501109)

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e-Print: arXiv:1311.4279 CQUEST-2013-0634

(Received 16 April 2015, Accepted 23 April 2015, **Published 29 June 2015**)

117-6-15) 10. Oscillating Fubini instantons in curved space

Bum-Hoon Lee, Wonwoo Lee, Daeho Ro, Dong-han Yeom(Natl. Taiwan U.)

Published in Phys.Rev. D91 (2015) 12, 124044

DOI: [10.1103/PhysRevD.91.124044](https://doi.org/10.1103/PhysRevD.91.124044) e-Print: arXiv:1409.3935

(Received 29 December 2014; **published 12 June 2015**)

116-5-15) 1. Holographic Nucleons in the Nuclear Medium

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