

## 論文リスト

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論文一覧や内容に関しては以下のリンクを参照

<https://arxiv.org/search/gr-qc?searchtype=author&query=Okabayashi%2C+K>

- [1]. Yasutaka Koga, Nobuyuki Asaka, Masashi Kimura, Kazumasa Okabayashi, "Shadow formation in gravitational collapse: redshift and blueshift by spacetime dynamics", Phys.Rev.D 112 (2025) 4, 044069
- [2]. Masazumi Honda, Hiroki Matsui, Kota Numajiri, Kazumasa Okabayashi (Alphabetical order), "Jackiw-Teitelboim Gravity and Lorentzian Quantum Cosmology", Phys.Rev.D 111 (2025) 12, 126022
- [3]. Kota Numajiri, Kazumasa Okabayashi, Shinji Mukohyama, "Boulware Vacuum vs. Regularity: Thoughts on Anomaly-Induced Effective Action", Phys.Rev.D 111 (2025) 8, 085024
- [4]. Kazumasa Okabayashi, Naritaka Oshita, "Greybody Factors Imprinted on Black Hole Ringdowns. II. Merging Binary Black Holes", Phys.Rev.D 110 (2024) 6, 064086
- [5]. Masazumi Honda, Hiroki Matsui, Kazumasa Okabayashi, Takahiro Terada (Alphabetical order), "Resurgence in Lorentzian quantum cosmology: No-boundary saddles and resummation of quantum gravity corrections around tunneling saddle points", Phys.Rev.D 110 (2024)
- [6]. Ken-ichi Nakao, Kazumasa Okabayashi, Tomohiro Harada, "Radiative gravastar with thermal spectrum; Sudden vacuum condensation without gravitational collapse," Phys.Rev.D 107 (2023) 8, 084036.
- [7]. Ken-ichi Nakao, Kazumasa Okabayashi, Tomohiro Harada, "Radiative gravastar with Gibbons-Hawking temperature," Phys. Rev. D 106, 105006 (2022).
- [8]. Yasutaka Koga, Nobuyuki Asaka, Masashi Kimura, Kazumasa Okabayashi, "Dynamical photon sphere and time evolving shadow around black holes with temporal accretion," Phys. Rev. D 105, 104040 (2022).
- [9]. Kazumasa Okabayashi, Tomohiro Harada, Ken-ichi Nakao, "Robustness of particle creation in the formation of a compact object," Progress of Theoretical and Experimental Physics, Volume 2022, Issue 2, February 2022, 023E02 (2022).
- [10]. Kazumasa Okabayashi, Nobuyuki Asaka, Ken-ichi Nakao, "Do black hole shadows merge?," Phys. Rev. D 102, 044011(2020)
- [11]. Kazumasa Okabayashi, Kei-ichi Maeda, "Maximal Efficiency of Collisional Penrose Process with Spinning Particles II," Progress of Theoretical and Experimental Physics, Volume 2020, Issue 1, January 2020, 013E01, (2020)
- [12]. Kei-ichi Maeda, Kazumasa Okabayashi, Hirotada Okawa (Alphabetical order), "Maximal Efficiency of Collisional Penrose Process with Spinning Particles," Phys. Rev. D 98, 064027 (2018).
- [13]. Raúl Carballo-Rubio, Francesco Di Filippo, Shinji Mukohyama, Kazumasa Okabayashi (Alphabetical order), "Imprints of quantum vacuum fluctuations on the gravitational field of a spherical mass," arXiv: 2509.10667 (2025).

- [14]. Raúl Carballo-Rubio, Francesco Di Filippo, Shinji Mukohyama, Kazumasa Okabayashi (Alphabetical order), “Macroscopic backreaction of the trace anomaly on classical vacuum backgrounds,” arXiv:2512.10710 (2025).