

## 出版済み

- [1] K. T. Abe, R. Inui, Y. Tada and S. Yokoyama, “Primordial black holes and gravitational waves induced by exponential-tailed perturbations,” JCAP **05**, 044 (2023) ([doi:10.1088/1475-7516/2023/05/044](https://doi.org/10.1088/1475-7516/2023/05/044), [arXiv:2209.13891](https://arxiv.org/abs/2209.13891) [[astro-ph.CO](#)])
- [2] K. T. Abe, “Cosmological contribution from population III stars in ultracompact minihalos,” Phys. Rev. D **106**, no.8, 083521 (2022) ([doi:10.1103/PhysRevD.106.083521](https://doi.org/10.1103/PhysRevD.106.083521), [arXiv: 2208.00375](https://arxiv.org/abs/2208.00375) [[astro-ph.CO](#)])
- [3] K. T. Abe and H. Tashiro, “Cosmological free-free emission from dark matter halos in the  $\Lambda$ CDM model,” Phys. Rev. D **106**, no.6, 063523 (2022) ([doi:10.1103/PhysRevD.106.063523](https://doi.org/10.1103/PhysRevD.106.063523), [arXiv: 2206.11261](https://arxiv.org/abs/2206.11261) [[astro-ph.CO](#)])
- [4] K. T. Abe, T. Minoda and H. Tashiro, “Constraint on the early-formed dark matter halos using the free-free emission in the Planck foreground analysis,” Phys. Rev. D **105**, no.6, 063531 (2022) ([doi:10.1103/PhysRevD.105.063531](https://doi.org/10.1103/PhysRevD.105.063531), [arXiv: 2108.00621](https://arxiv.org/abs/2108.00621) [[astro-ph.CO](#)])
- [5] K. T. Abe, Y. Tada and I. Ueda, “Induced gravitational waves as a cosmological probe of the sound speed during the QCD phase transition,” JCAP **06**, 048 (2021) ([doi:10.1088/1475-7516/2021/06/048](https://doi.org/10.1088/1475-7516/2021/06/048), [arXiv: 2010.06193](https://arxiv.org/abs/2010.06193) [[astro-ph.CO](#)])
- [6] K. T. Abe and H. Tashiro, “Population III star explosions and Planck 2018 data,” Phys. Rev. D **103**, no.12, 123543 (2021) ([doi:10.1103/PhysRevD.103.123543](https://doi.org/10.1103/PhysRevD.103.123543), [arXiv:2103.01643](https://arxiv.org/abs/2103.01643) [[astro-ph.CO](#)])
- [7] K. Furugori, K. T. Abe, T. Tanaka, D. Hashimoto, H. Tashiro and K. Hasegawa, “The 21-cm signals from ultracompact minihaloes as a probe of primordial small-scale fluctuations,” Mon. Not. Roy. Astron. Soc. **494**, no.3, 4334-4342 (2020) ([doi:10.1093/mnras/staa1033](https://doi.org/10.1093/mnras/staa1033), [arXiv: 2002.04817](https://arxiv.org/abs/2002.04817) [[astro-ph.CO](#)])
- [8] K. T. Abe, H. Tashiro and T. Tanaka, “Thermal Sunyaev-Zel’dovich anisotropy due to primordial black holes,” Phys. Rev. D **99**, no.10, 103519 (2019) ([doi:10.1103/PhysRevD.99.103519](https://doi.org/10.1103/PhysRevD.99.103519), [arXiv: 1901.06809](https://arxiv.org/abs/1901.06809) [[astro-ph.CO](#)])

## 提出済み

- [9] K. T. Abe and Y. Tada, “Translating nano-Hertz gravitational wave background into primordial perturbations taking account of the cosmological QCD phase transition,” ([arXiv:2307.01653](https://arxiv.org/abs/2307.01653) [[astro-ph.CO](#)]).
- [10] H. Tashiro, K. T. Abe and T. Minoda, “Free-free background radiation from accreting primordial black holes,” ([arXiv:2108.01916](https://arxiv.org/abs/2108.01916) [[astro-ph.CO](#)])