Short-author-list publications

1. **A.K.-W.Chung**, Kelvin Ka-Ho Lam, and Nicolás Yunes, Quasi-normal mode frequencies and gravitational perturbations of black holes with any subextremal spin in modified gravity through METRICS: the dynamical Chern-Simons gravity case, arXiv: 2503.11759

2. Bryce Cousins, Kristen Schumacher, **A.K.-W.Chung**, Thomas Callister, Colm Talbot, Daniel E. Holz, and Nicolás Yunes, The Stochastic Siren: Astrophysical Gravitational-Wave Background Measurements of the Hubble Constant, arXiv: 2503.01997

3. Yiqi Xie, **A.K.-W.Chung**, Thomas Sotiriou, and Nicolás Yunes, Bayesian search for massive scalar charge from LIGO-Virgo-KAGRA binaries, arXiv:2410.14801, under review by *Phys. Rev. Lett.*

4. **A.K.-W.Chung**, and Nicolás Yunes, Quasi-normal mode frequencies and gravitational perturbations of black holes with any subextremal spin in modified gravity through METRICS: the scalar-Gauss-Bonnet gravity case, *Phys. Rev. D* 110, 064019, 2024

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6. **A.K.-W.Chung**, Pratik Wagle, and Nicolás Yunes, Spectral method for the gravitational perturbations of black holes: Kerr background case, *Phys. Rev. D* 109, 044072 (2024)

7. **A.K.-W.Chung** and Nicolás Yunes, Untargeted Bayesian search of anisotropic gravitational-wave backgrounds through the analytical marginalization of the posterior, *Phys. Rev. D* 108, 043032 (2023).

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9. **A.K.-W.Chung**, Alexander C. Jenkins, Joseph D. Romano, Mairi Sakellariadou, Targeted search for the kinematic dipole of the gravitational-wave background, *Phys. Rev. D* 106, 082005 (2022).

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11. **A.K.-W.Chung** and Tjonnie Guang Feng Li, Lensing of gravitational waves as a novel probe of graviton mass, *Phys. Rev. D* 104, 124060 (2021)

12. **A.K.-W.Chung** and Sakellariadou, M., Upper limits on the temperature of inspiraling astrophysical black holes. *The European Physical Journal C* 81, 592 (2021).

13. Mark Ho-Yeuk Cheung, Levi Wing-Hei Poon, **A.K.-W.Chung** and Tjonnie Guang Feng Li, Ringdown spectroscopy of rotating black holes pierced by cosmic strings, *Journal of Cosmology and Astroparticle Physics* 02(2021)040.

14. **A.K.-W.Chung** and Tjonnie Guang Feng Li, Phenomenological inclusion of alternative dispersion relations to the Teukolsky equation and its application to bounding the graviton mass with gravitational-wave measurements, *Phys. Rev. D* 99, 124023 (2019).

LIGO-Virgo-Collaboration publications with significant contributions

When I was a member of the LIGO Scientific Collaboration (LSC), I made significant contributions to the following LSC publications.

1. Abbott, B. P. *et al.* (The LIGO Scientific Collaboration and the Virgo Collaboration), Tests of General Relativity with Binary Black Holes from the second LIGO-Virgo Gravitational-Wave Transient Catalog, *Phys. Rev. D* 103, 122002 (2021).

2. Abbott, B. P. *et al.* (The LIGO Scientific Collaboration and the Virgo Collaboration), Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1, *Phys. Rev. D* 100, 104036 (2019).

Review article

1. Emanuele Berti *et. al*, Black Hole Spectroscopy: A Review, *in prep., expected to be finished in January 2025*

Popular science articles

1. **A.K.-W.Chung**, Ringdown: the music by oscillating black holes, invited article contribution to the Hong Kong Laureate Newsletter, https://hklaureateforum.org/en/ringdown-the-music-by-oscillating-black-holes, October 2023.