

Erratum

Will Salmon, Chris Gustin, Alessio Settineri, Omar Di Stefano, David Zueco, Salvatore Savasta, Franco Nori and Stephen Hughes*

Erratum to: Gauge-independent emission spectra and quantum correlations in the ultrastrong coupling regime of open system cavity-QED

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After the publication of our paper [1], the authors found that Figure 5(c) was using an incorrect data file, which has been corrected here.

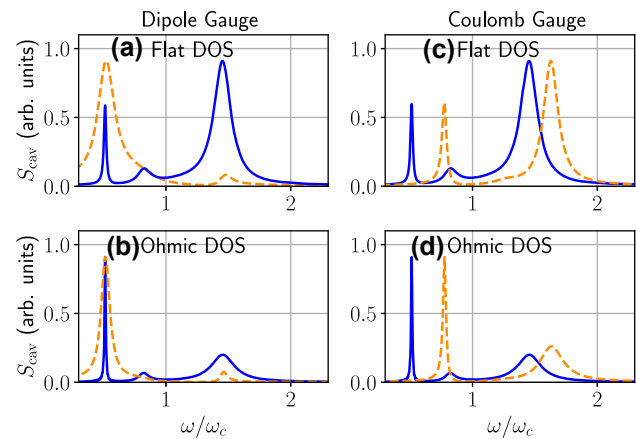


Figure 5: The computed cavity spectra using the dipole gauge (left) and Coulomb gauge (right), with a flat DOS [$\kappa(\omega) = \kappa$, panels (a, c)] and an Ohmic DOS [$\kappa(\omega) = \kappa\omega/\omega_c$, panels (b, d)] using the generalized master equation [see Eqs. (A9)–(A10) in Appendix A]. In both cases, the effect of the gauge correction (solid lines versus dashed lines) is dramatic. We use the same parameters as in Figure 2 of the main text, with incoherent driving, and parameters $\eta = 0.5$ and $\kappa = 0.25g$. Notably, in all cases, regardless of the spectral function, the corrected dipole gauge and corrected Coulomb gauge results are identical.

Will Salmon and Chris Gustin authors contributed equally to this work.

***Corresponding author: Stephen Hughes**, Department of Physics, Engineering Physics and Astronomy, Queen's University, Kingston ONK7L 3N6, Canada, E-mail: shughes@queensu.ca. <https://orcid.org/0000-0002-5486-2015>

Will Salmon, Department of Physics, Engineering Physics and Astronomy, Queen's University, Kingston, ON K7L 3N6, Canada, E-mail: will.salmon@queensu.ca

Chris Gustin, Department of Physics, Engineering Physics and Astronomy, Queen's University, Kingston, ON K7L 3N6, Canada; and Department of Applied Physics, Stanford University, Stanford, CA 94305, USA, E-mail: cgustin@stanford.edu

Alessio Settineri and Omar Di Stefano, Dipartimento di Scienze Matematiche e Informatiche, Scienze Fisiche e Scienze della Terra, Università di Messina, I-98166 Messina, Italy

David Zueco, Instituto de Ciencia de Materiales de Aragón and Departamento de Física de la Materia Condensada, CSIC-Universidad de Zaragoza, Pedro Cerbuna 12, 50009 Zaragoza, Spain; and Fundación ARAID, Campus Río Ebro, 50018 Zaragoza, Spain

Salvatore Savasta, Dipartimento di Scienze Matematiche e Informatiche, Scienze Fisiche e Scienze della Terra, Università di Messina, I-98166 Messina, Italy; and Theoretical Quantum Physics Laboratory, RIKEN Cluster for Pioneering Research, Wako-shi, Saitama 351-0198, Japan

Franco Nori, Theoretical Quantum Physics Laboratory, RIKEN Cluster for Pioneering Research, Wako-shi, Saitama 351-0198, Japan; and Physics Department, The University of MI, Ann Arbor, MI 48109-1040, USA

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Reference

- [1] W. Salmon, C. Gustin, A. Settineri, et al., “Gauge-independent emission spectra and quantum correlations in the ultrastrong coupling regime of open system cavity-QED,” *Nanophotonics*, vol. 11, pp. 1573–1590, 2022.