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Multiple surface plasmon polaritons mediated near-field radiative heat transfer between graphene/vacuum multilayers

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Highlights

- Near-field radiative heat transfer (NFRHT) between graphene/vacuum multilayers is investigated.
- The graphene/vacuum multilayers can support coupled multiple surface plasmon polaritons (MSPPs).
- Effects of the separation distances, number of layers and chemical potentials are examined.
- MSPPs can not only enhance but also suppress the photon tunneling, hence the NFRHT.

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