

# **Study the phonon transport by using the real space KUBO method**

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We proposed employing the real space Kubo method, which has already been well applied to the electron transport, to study the phonon transport. As an application of this method, we calculated the phonon mean free path in carbon nanotube system. The result is shown to be in good agreement with the one obtained by the GF formalism, with the exception of low frequency, which is due to the limitation of computation time.