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(I) On the validity of many-mode Floquet theory

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Floquet theory is useful for understanding the behaviour of quantum systems subject to periodic fields. Ho et al. [Chem. Phys. Lett. 96, 464 (1983)] have presented an extension of Floquet theory to the case of systems in the presence of *multiple* periodic fields with different frequencies. However, unlike conventional Floquet theory, which is well-established, many-mode Floquet theory (MMFT) is somewhat controversial, with conflicting statements regarding its validity appearing in the literature. I will present our recent resolution of these discrepancies.

Joint work with Adam Poertner, supported by NSERC.

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