Determination of the Coupling Constants of Coupled Systems via Coherent Control

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When two open and dissipative systems interact, both near- and far-field interactions involve and they play distinctive role in governing the resulting optical properties. The determination of both the near- and far-field coupling constants is of importance in understanding the underlying physics. Here, we have developed an approach to determine two constants via coherent control. We verify our approach by using finite-difference time-domain method and have measured the constants of coupled metallic slits.