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## **Optical Interaction of the NV- Centre in Diamond with a Plasmonic Metal Nanoparticle**

*Tuesday, 13 December 2022 16:45 (15 minutes)*

We demonstrate the possibility of significantly enhancing and precisely controlling the fluorescence of NV centres using plasmonic metal nanoparticles by developing the theoretical foundation for NV-plasmonic optical interaction (which is verified using existing optical measurements).

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