

Abstract Submitted
for the DAMOP13 Meeting of
The American Physical Society

Nanostructured Diamond for Enhanced Collection Efficiency from NV Centers BRENDAN SHIELDS, NATHALIE DE LEON, ALEXANDER ZIBROV, HONGKUN PARK, MIKHAIL LUKIN, Harvard University Department of Physics — Nitrogen-vacancy (NV) centers in diamond are at the heart of a growing number of promising technologies, ranging from field sensing to solid-state quantum repeaters. Key to these applications is the ability to read out the electronic spin state accurately via the NV's optical transition. Here we present a method for enhanced photon collection efficiency from NVs near the interface between a diamond nanobeam and a glass plate.

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Date submitted: 28 Jan 2013

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