Abstract Submitted
for the DAMOP11 Meeting of
The American Physical Society

Characterization of NV diamond samples LINH PHAM, Harvard University, DAVID LE SAGE, NIR BAR-GILL, CHINMAY BELTHANGADY, Harvard-Smithsonian, KEIGO ARAI, MIT, DANIEL TWITCHEN, MATTHEW MARKHAM, Element Six Ltd, RONALD WALSWORTH, Harvard University —
We report recent progress in studying the effects of various diamond synthesis and processing techniques on the spin coherence behavior of the nitrogen-vacancy (NV) defect center. Measurements were made on single NV centers as well as on small ensembles in diamond samples containing varying concentrations of Nitrogen and 13Carbon spin impurities and which have been subjected to a range of post-growth irradiation and annealing recipes.

Linh Pham
Harvard University

Date submitted: 02 Feb 2011 Electronic form version 1.4