Abstract Submitted
for the MAR08 Meeting of
The American Physical Society

A New Approach to Spin Coherence Control: Extreme Line-narrowing and MRI of Solids YANQUN DONG, RONA RAMOS, DALE LI, SEAN BARRETT, Yale University, Department of Physics — The non-zero duration of strong pulses has been shown to have surprisingly large effects in important NMR experiments. The Hamiltonian terms arising from the internal structure of strong pulses provide us with a new technique of spin coherence control. Using this technique, we design and demonstrate new approaches to line-narrowing and magnetic resonance imaging of solids.

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Date submitted: 27 Nov 2007 Electronic form version 1.4