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**Puzzles in Silicon NMR: Pushing the limits of pulse quality** DALE LI, ANATOLY DEMENTYEV, YANQUN DONG, RONA RAMOS, SEAN BARRETT, Yale University Department of Physics — Recent observations of anomalously long-lived spin echoes in Silicon are still not understood [A.E. Dementyev, D.Li, K. MacLean, S.E. Barrett, Phys. Rev. B 68, 153302 (2003).]. This talk will discuss our most recent experimental efforts to understand the basis of this effect. In particular, detailed studies of the effect of pulse quality (including spatial uniformity across our many-spin system) will be reported.

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