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Generating Novel Spin Echoes Using the Internal Structure of Strong Pi-Pulses RONA RAMOS, YANQUN DONG, DALE LI, SEAN BARRETT, Yale University — Conventionally, strong pulses used to control coherent evolution are approximated as instantaneous, perfect rotations. However, recent experiments have shown a surprising departure from the conventional theory in standard multipulse NMR experiments using strong pi-pulses. Using our understanding of the role that the finite time duration of any real pulse plays in these effects, we design and experimentally demonstrate new classes of spin echoes.

Rona Ramos
Yale University

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