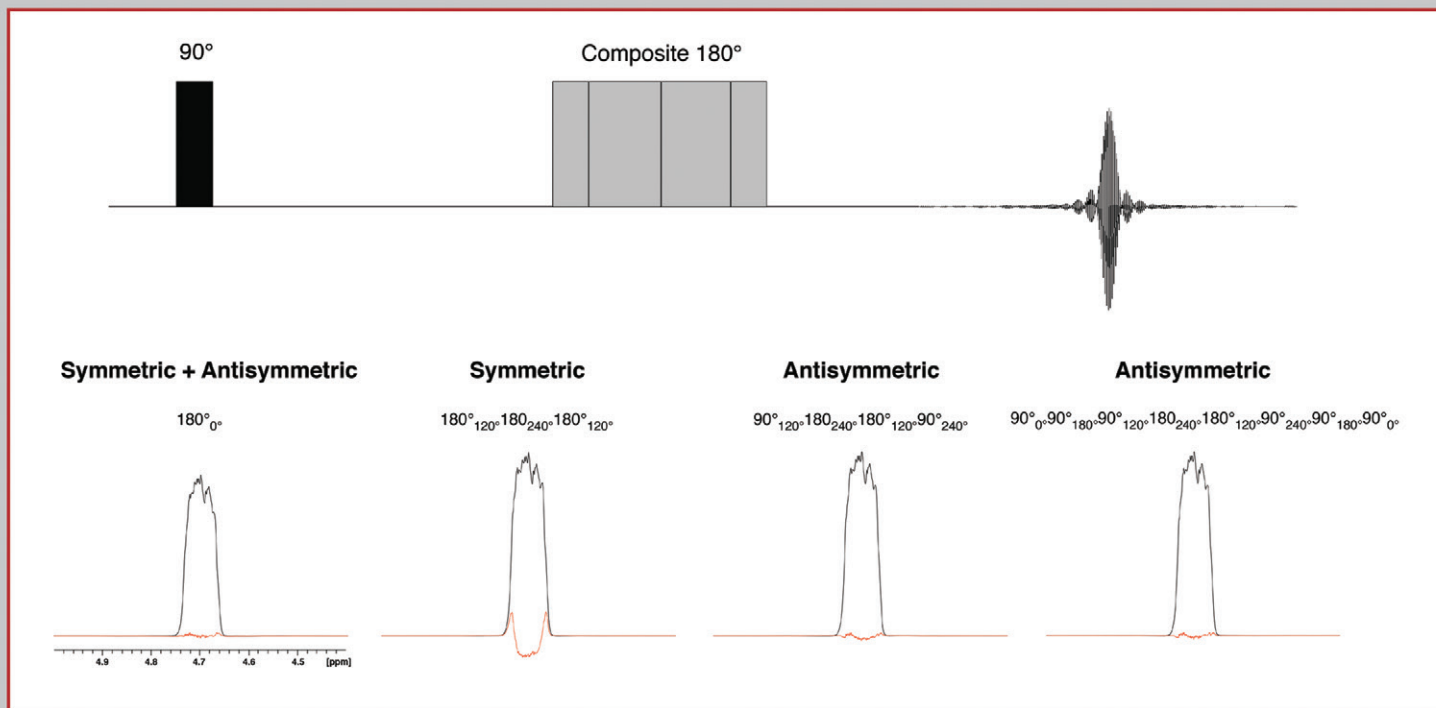


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New antisymmetric composite 180° refocusing pulses are designed that are shorter than the existing near-equivalents. These error-compensating sequences can be used to form a spin echo with zero phase distortion as in the whole-echo examples shown here, where only the antisymmetric pulses yield no dispersive lineshape component (in red).

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