NMR WARS

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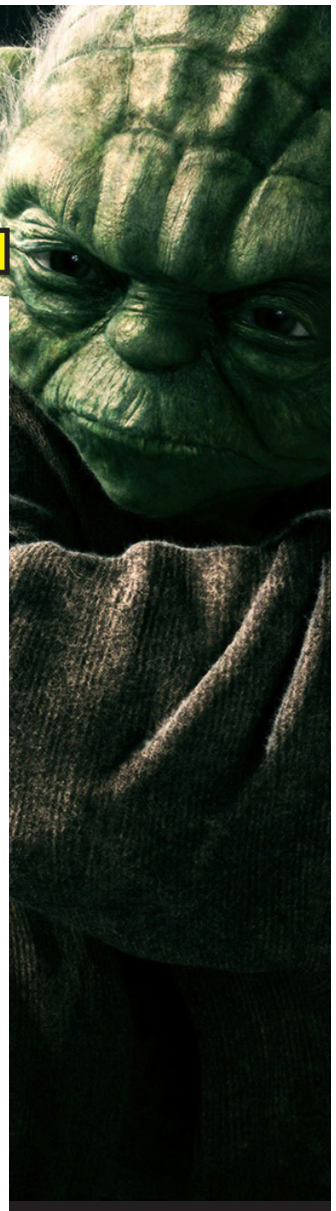
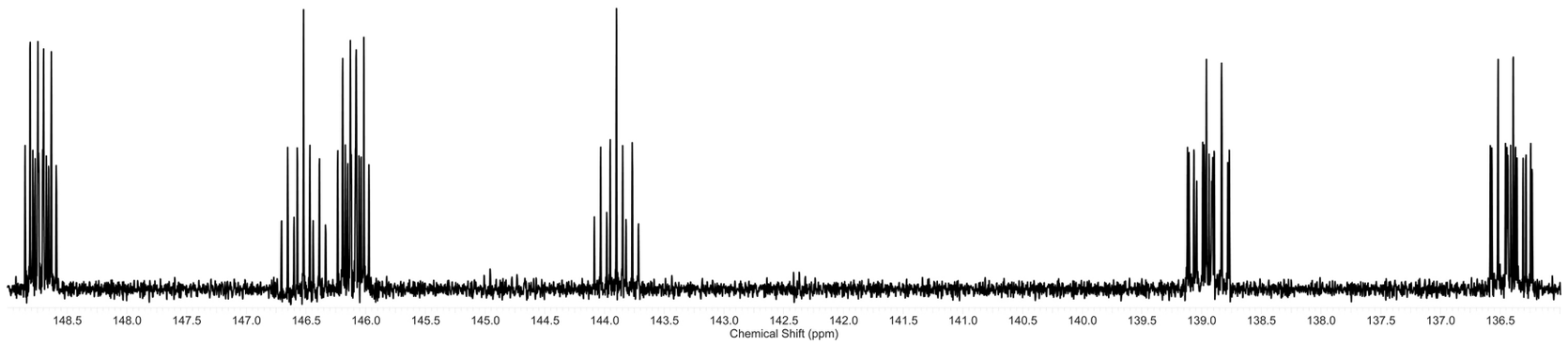
SCIENCE





Pentafluorobenzaldehyde in $CDCl_3$

Emily Crull, 2017

Donahue Lab | University of Southern Mississippi

Field strength: 400 MHz

Why is this your favorite spectrum?

The asymmetry of the fluorines causes splitting to appear on each carbon for the fluorine it is bonded to and the one bonded to the opposite carbon with different coupling constants even though the two fluorines are indistinguishable by ^{19}F NMR.