CIGAR-HMBC

Improvement of wide ⁿJCH range ¹H-detected long-range shift correlation measurements

CIGAR-HMBC (Constant-time Inverse-detected Gradient Accordion Re-scaled long-range HMBC) is a further improved method of IMPEACH-MBC. In CIGAR-HMBC, JHH-modulation, or spectral distortion along the indirect axis, is completely removed by making the sequence constant-time not only for the magnetization transfrer time but also for the evolution time t1 through a parameter Jscale: When Jscale=0, JHH-modulation is removed; when Jscale=1, JHH-modulation is equivalent to that in IMPEACH-MBC; when Jscale is set to be much larger, JHH-modulation can purposely be introduced, which may be utilized to confirm the correlation peaks.







