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Euromar 2011

By Thomas F. Prisner

Cuvillier Verlag Aug 2011, 2011. Taschenbuch. Book Condition: Neu. 211x148x32 mm. Neuware - INEPT began life as an extension of early 2D ^1H - ^{13}C correlation experiments^{1,2}. These showed surprisingly good sensitivity, because of the twin advantages of polarization transfer from the higher protons and the shorter proton T_1 . It was then an obvious step to crystallise these advantages in a 1D experiment by removing the evolution period and adding refocusing pulses to make the technique broadband³. Two different experiments were performed, one generating antiphase peaks and the other refocused to allow the measurement of decoupled spectra, but only the first of these was published at the time³, the refocused experiment being developed independently by Burum and Ernst⁴. One of the first applications of INEPT was, at the suggestion of Howard Hill, to enhance ^{15}N signals⁵, but the method was rapidly extended to multiplicity determination and to incorporation as a building block in ever more complex sequences for protein structure determination. New uses continue to appear, including applications in high resolution solid state NMR and quantum computing. The early history of the INEPT 426 pp. Englisch.



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