sections of the chemical shifts of $C_1/H_1,\ C_2/H_2,\ C_3/H_3,$ and $C_4/H_4.$

The above application only serves as a clear illustrative example. More efficient 2D-FTNMR methods are available for correlating the chemical shifts of directly bound nuclei via J-modulated polarization transfer. The sequence described here is most useful when J coupling between the I and S spins is not present or is not resolved. Such a case might arise for a metal ion with nuclear spin $I = \frac{1}{2}$ which is bound in a complex molecule. Protons in the vicinity of the metal ion binding site would contribute to its dipolar relaxation, and the heteronuclear 2D-NOE sequence could provide an indication of the types of protons that make up the structure of the metal ion binding site. Preliminary 113 Cd(1 H)

(7) Bax, A.; Morris, G. A. J. Magn. Reson. 1981, 42, 501.

2D-NOE studies of metalloorganic complexes indicate this is feasible

This new heteronuclear 2D-NOE NMR experiment should be useful for identifying the structures surrounding the metal ion binding sites in complexes with organic and biological ligands. In combination with other 2D-NMR NOE experiments,³ it could provide the complete solution structure of metal ion complexes. ¹⁵N(¹H) heteronuclear 2D-NOE experiments might provide information on the protons involved in exchange in compounds such as peptides.

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Additions and Corrections

Low-Valent Molybdenum Porphyrin Derivatives: Synthesis and Structure of a π -Bonded Diphenylacetylene Adduct of Molybdenum(II) (meso-Tetra-p-tolylporphyrin) [J. Am. Chem. Soc. 1981, 103, 1850]. Andre De Cian, Jocelyne Colin, Michel Schappacher, Louis Ricard, and Raymond Weiss*

Reference 5: The correct space group for $|MoTTP(PhC = CPh) \cdot C_6H_5CH_3|$ should read $P2_1/n$.

Fast Hydrolysis of Alkyl Radicals with Leaving Groups in the β Position [J. Am. Chem. Soc. 1982, 104, 7311-7312]. G. KOLTZENBURG, G. BEHRENS, and D. SCHULTE-FROHLINDE* Page 7311: The missing rate constant in the sixth entry of Table I is 10^4 .

Page 7312: Formula VII in Chart I should read:



Page 7312, thirteenth line after eq 4 should read as follows: ...on substitution of H by CH₃...