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## The Multiple Quantum Coherence and Magic Angle in the Solid NMR Spectroscopy

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Studied in this paper is that how multiple quantum coherence develops in the anisotropic distribution of dipolar couplings. The magnitude of dipolar couplings was varied with oriented angles. The larger dipolar coupling was, the bigger frequency of multiple quantum coherence was. The multiple quantum coherence is decided with proportion of the magnitude of dipolar couplings. The theory equation for multiple quantum coherence and the magic angle  $54.7^\circ$  in the solid NMR spectroscopy was verified in our research. The excitation pattern of n-Quantum coherence, which can induce the effective size to characterize spin system, is expected in larger and more complicated spin system for understanding the relation of dipolar coupling and multiple quantum coherence.