

Abstract Submitted to the  
3rd Conference on Concepts in Electron Correlation  
30 September - 5 October, 2005  
Hvar, Croatia

## **High Field ESR on Materials with Magnetic Correlations**

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Far infrared spectroscopy, in the wavenumber range of  $10\text{cm}^{-1}$  to  $100\text{cm}^{-1}$ , was used to study electron spin resonance in spin systems with magnetic correlations. The  $k = 0$  magnon and the optical phonon excitations were mapped as the function of the frequency and the field (up to 14T) at various temperatures. Materials include the quasi one-dimensional spin 1/2 helimagnet  $\text{LiCuO}_2$ , the canted antiferromagnet  $\text{LaMnO}-3$ , the spin 1 planar magnet  $\text{Ni}_5(\text{TeO}_3)_4\text{Cl}_2$ , the tetrahedral spin compound  $\text{Cu}_2\text{Te}_2\text{O}_5\text{Cl}_2$ , and the random-bond-strength spin chain system  $\text{BaCu}_2\text{SiGeO}_7$ . The implications of the results on the model parameters, like the exchange, the anisotropic exchange and the Dzyalushinsky-Moriya coupling, will be discussed.

*Keywords* : spin resonance, magnetic correlations