Talk 12: 11:15–

Do we need dynamical spin anisotropies?

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$SrCu_2(BO_3)_2$ is a well-known 2d spin gap system where the spin anisotropy has been studied by detailed spectroscopic measurements for the last few years. The main anisotropy takes the form of *static* Dzyaloshinskii-Moriya interactions and explains very well the splittings and the dispersion of the magnons, as I will show. There are, however, ESR forbidden transitions between multiplets that are less understood. I will argue that the transitions are well explained by a *dynamical* anisotropy induced by phonons, that explains both the selection rules and intensities observed. This raises questions as to whether such anisotropies may be of importance to other experiments, especially the ESR linewidth where surprising results were obtained at high-temperatures for this compound. I will briefly address such issues at the end of the talk.