

Rede Galega de Líquidos Iónicos (ReGaLIs)

CONFERENCIA

Simulations and RIKES (Raman Induced Kerr Effect Spectroscopy) observations of ionic Liquids

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Abstract:

RIKES (Raman Induced Kerr Effect Spectroscopy) measures some properties of the low frequency modes of a liquid and is complementary to Dielectric Spectroscopy. Ed Quitevis (Texas Tech) has used it for comparing [dmim][NTf2] and benzene liquids and their mixtures. I shall present simulation results showing local molecular environments and vibrational densities of states. In a further set of experiments Quitevis compared these liquids with the corresponding benzylimidazolium imidazolium liquid where the benzene is tied to the imidazolium ring. Surprisingly there is little change in the local environments and vibrational density of states.