CONCENTRATED ASSEMBLIES OF MAGNETIC NANOPARTICLES IN IONIC LIQUIDS

MARIANNA MAMUSA, JULIETTE SIRIEIX-PLÉNET, RÉGINE PERZYNSKI , FABRICE COUSIN, EMMANUELLE DUBOIS, VÉRONIQUE PEYRE

SUPPLEMENTARY INFORMATION



FIGURE 1. Experimental form factor P(Q) for the maghemite particles used in the present work, normalized to the maghemite/EAN contrast $\Delta \rho^2$ and to a volume fraction of particles $\Phi=0.01$

1



FIGURE 2. Magnetization M normalized by the volume fraction Φ for the two dilute samples with lithium counterions, Li-EAN and Li-EAN-D.



FIGURE 3. Normalized SAXS intensity for dilute Li samples in EAN. Comparison with the normalized form factor P(Q).



FIGURE 4. Normalized intensity versus time extracted from magneto-optic birefringence experiments on the dilute samples in EAN with the three different initial counterions in water (samples of Table 2 in the article).



FIGURE 5. SAXS intensity for the dilute phases of the three two-phases samples with the three initial counterions (samples of Table 2 in the article), and experimental form factor. The curves are shifted for clarity by a factor of 3.