CONCENTRATED ASSEMBLIES OF MAGNETIC NANOPARTICLES
IN IONIC LIQUIDS

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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 $\Phi=0.01$
**Figure 2.** Magnetization M normalized by the volume fraction $\Phi$ 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.