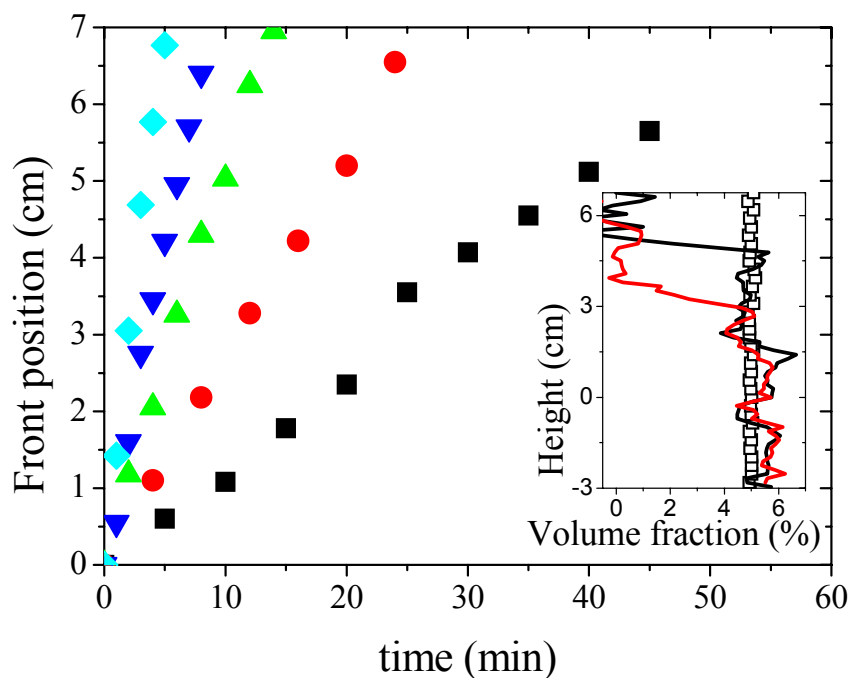


*Three-dimensional jamming and flows of soft glassy materials*

G. Ovarlez, Q. Barral, P. Coussot

**Supplementary Figure 1 | Bead sedimentation observed through MRI techniques.**

Position of the sedimentation front as a function of the time of shear, for a 5% suspension of 275 microns glass beads in an emulsion of 8.5 Pa yield stress, for various shear rates:  $4 \text{ s}^{-1}$  (squares),  $8.8 \text{ s}^{-1}$  (circles)  $14 \text{ s}^{-1}$  (up triangles)  $18.6 \text{ s}^{-1}$  (down triangles)  $25 \text{ s}^{-1}$  (diamonds). Inset: vertical volume fraction profiles observed in the gap of the Couette geometry in the same material as in Fig.2, after a 24 h rest (squares) and after 15 min (black line) and 25 min (red line) of shear at  $4 \text{ s}^{-1}$ .