

## Supplementary Information

### Sub-nanosecond dynamics of phospholipid membranes interacting with polymorphic amyloid fibrils observed by elastic incoherent neutron scattering

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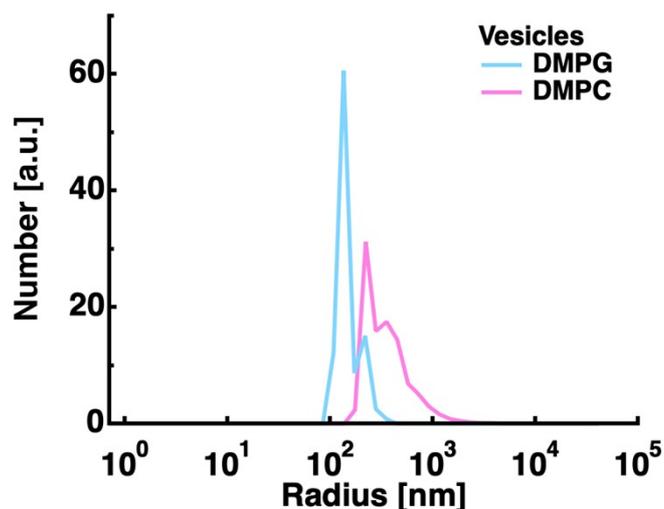


Fig. S1. Size distribution of DMPC and DMPG vesicles obtained by dynamic light scattering (DLS). The vesicles were prepared in the same way as in Materials and method of the main text. The DLS measurements were carried out at the concentration of 0.1 mg/ml such that the detector was not saturated.

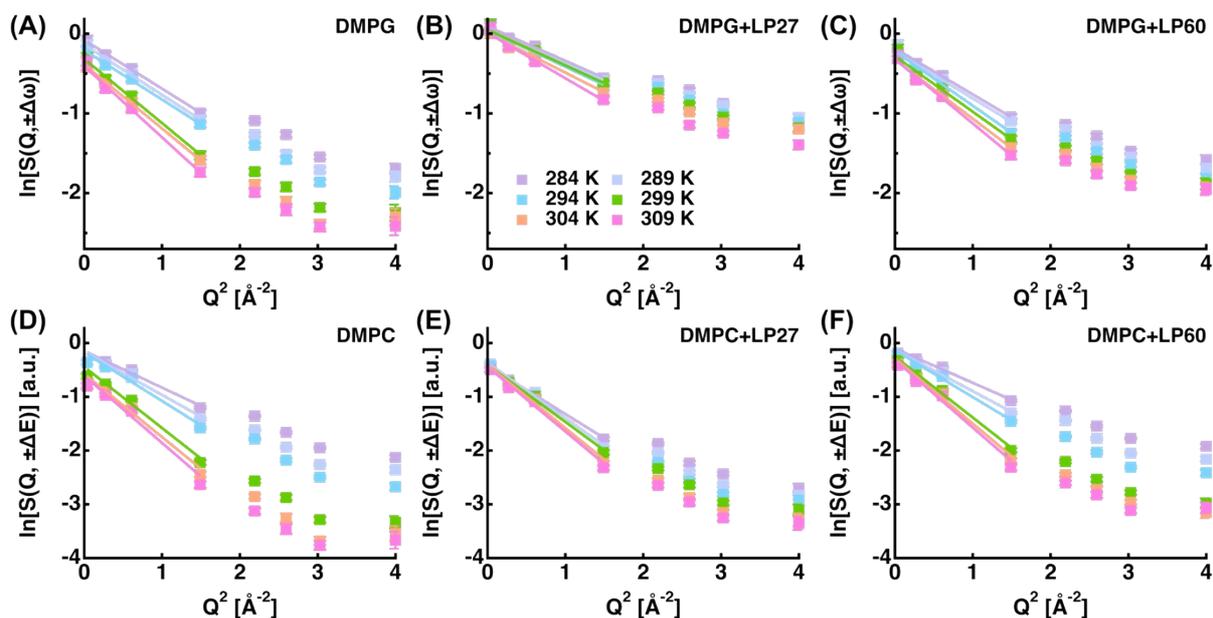


Fig. S2. Gallery of the fitting of the measured EINS curves using the Gaussian approximation. Measured data points and the fit results are shown by filled squares and solid lines, respectively. The color scheme is shown in (B). (A), (B), and (C) correspond to DMPG, DMPG in the presence of LP27 (DMPG+LP27), and DMPG in the presence of LP60 (DMPG+LP60). (D), (E), and (F) correspond to DMPC, DMPC in the presence of LP27 (DMPC+LP27), and DMPC in the presence of LP60 (DMPC+LP60). Error bars are within symbols if not shown.