

Abstract Submitted
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Small-angle neutron scattering study of lipid bilayers of magneto-vesicles¹ WILFRED NGWA, KEZHENG CHEN, WEILI LUO, Department of Physics, University of Central Florida, Orlando, FL 32816, P. THIYAGARAJAN, A. RAGHAVAN, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439 — We present results from a small-angle neutron scattering (SANS) study of two types of magneto-vesicles (MVs): dioleoylphosphatidylcholine (DOPC) vesicles containing citrate-coated magnetic nanoparticles and those containing oleic-acid-coated magnetic particles. By using a polydisperse core shell model, these MVs were found to have similar sizes as their original vesicles without magnetic particles and their bilayer thicknesses to be consistent with unilamellar structure.

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