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Small Angle X-ray Scattering of Self-assembling Systems Composed of Phosphocholine Lipids and Dendrimers. DEREK DORMAN, PAUL RUSSO, Louisiana State University — Polypropylenimine tetraamine (DAB-Am) and 1-directional arboral dendrimers have been studied in different molar concentrations with 1,2-Dioleoyl-sn-Glycero-3-phosphocholine (DOPC). One-directional arborols are amphiphilic dendrimers with hydrophilic head group composed of 9 hydroxyl groups and a short alkyl chain for the hydrophobic tail. Film and liposome shell thickness was determined using small angle x-ray scattering beamline at the Center for Advanced Microstructures and Devices at Louisiana State University.

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