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### States of Guest Molecules/Molecular Assemblies in Two dimensional Nanospace

Dioleyldimethylammonium ion was used to construct hybrid with a clay (a bentonite) and the hybrid was shown to possess higher flexibility than that of the hybrid of dioctadecyldimethylammonium and the clay. The difference between the two hybrids was studied by molecular probe and quasi-elastic neutron scattering. The useful characteristics of the dioleyldimethylammonium-clay as a new class of materials for host-guest systems with versatile application were suggested.