

MAR05-2004-000284

Abstract for an Invited Paper
for the MAR05 Meeting of
the American Physical Society

Tetrahedric Order in Biological Systems

PATRICIA CLADIS, Advanced Liquid Crystal Tech. Inc.

Time dependent braid and myelinic textures have been observed at the banana B7-isotropic transition. They are not observed in classical liquid crystals where there is only quadrupolar order. We discuss to what extent they are consistent with the coexistence of spatially dependent quadrupolar and tetrahedral order in a temperature gradient induced flow.