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## Liquid Crystals

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## Addendum

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## ADDENDUM

### Reentrant phenomena in cyano substituted biphenyl esters containing flexible spacers

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(*Liquid Crystals*, 1989, 5, 133)

In our recent publication we reported that 4'-*n*-decoxyphenyl 4-(4'-cyano-4-oxybiphenyl) butanoate formed filaments when cooled from the isotropic liquid. These filaments eventually coalesced to form a typical S<sub>A</sub> texture. Recent synthesis of this material by M. E. Neubert and S. S. Keast at the Liquid Crystal Institute, followed by thorough purification via flash chromatography using 15 per cent ethyl acetate/hexane as the eluant, and recrystallization using ethanol, resulted in samples which did not show the filaments at the I-S<sub>A</sub> transition. However, the addition of trace quantities (~ 1 per cent) of the decyloxyphenol resulted in the recurrence of the filamentary growth. We conclude therefore that the mechanism for this process in these materials is closely linked to the presence of impurities.

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