

PHOTOCONDUCTIVITY AND DIELECTRIC
PROPERTIES OF (C₆₀+C₇₀) — FERROELECTRIC
LIQUID CRYSTAL COMPOSITE

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S u m m a r y

A composite stable in time of fullerene (Fn) and a ferroelectric liquid crystal (FLC) has been obtained. It is shown that the illumination by the focused light of a halogen lamp results in changes of the complex dielectric permittivity components only in the low-frequency range. The interrelation between dielectric permittivities measured under illumination and those measured in dark depends on the type of the mesophase of FLC. The illumination results in the formation of an additional channel through the fullerene for the electron exchange between ions and the electrode.