

INTERACTION OF AN ELONGATED PARTICLE
SUSPENDED IN A NEMATIC WITH A $(1/2)$
DISCLINATION LINE

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S u m m a r y

An elongated particle suspended in a nematic is described with the help of a localized system of defects. Elastic interaction of such a particle with a plane disclination with a strength of $(1/2)$ is considered. It is demonstrated that, in the vicinity of a disclination, the system of defects of the particle undergoes essential changes that depend on the distance d between the particle and the disclination and the orientation of the particle with respect to the special disclination line. In this case, the interaction force is of attractive character and depends only on the distance d .