

# On the ordering of n cyanobiphenyl mesogene molecules on graphene a computer simulation study

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## Abstrak

### <b>ABSTRACT</b>

We studied ultrathin layers of  $n$  cyanobiphenyl ( $n = 5, 6, 7, 8$ ) mesogene molecules forming thin films on a graphene plane using molecular dynamics simulations in a wide temperature range (220–420 K). Each modeled ensemble was heated to the maximum temperature and then cooled (reverse procedure). We calculated the second rank order parameter as a measure of the molecular order of mesogene molecules and we discuss the distribution of angles between them and the global sample director.