

ANOMALOUS ASYMPTOTIC
OF SMALL-ANGLE NEUTRON
SCATTERING INTENSITY

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S u m m a r y

An anomalous asymptotic dependence of the small-angle neutron scattering intensity $I(\mathbf{Q})$, when $I(\mathbf{Q})$ increases infinitely as $\mathbf{Q} \rightarrow 0$, has been studied. This behavior is shown to be associated with the presence of the random field of a scattering density, whose typical linear size is much larger than the reciprocal magnitude of \mathbf{Q} . In the considered case, the sought asymptotic dependence is found to have the form $I(\mathbf{Q}) \sim Q^{-3}$.