

INTERNAL FIELD GRADIENT
IN INHOMOGENEOUS SYSTEMS
WITH VARIOUS FILLING DENSITIES,
WHICH ARE IN THE CRITICAL STATE

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S u m m a r y

On the basis of the fluctuation theory of phase transitions and the theory of gravitational effect, the gradient of an internal field in an inhomogeneous system near its critical point (CP) has been demonstrated to depend on the density of the system filling. The results obtained are corroborated by the experimental studies of the altitude dependence of the scattered light intensity in such systems.