

## MICRODOMAIN ORIGIN IN FERROELECTRICS

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### S u m m a r y

The possibility for a microdomain origin in ferroelectric crystals around the defects of definite type, i.e. charged microregions inside the crystals, has been studied. The microregion is simulated by a sphere and the microdomain is considered as a cylinder with infinitely thin domain walls. It is shown, that the defect charge must exceed the threshold value for the microdomain origin. The radius and charge of a defect unambiguously determine the microdomain sizes. The macrodomains and/or needle-like or lens-like microdomains can appear depending on the parameters of a charged defect.