

STRUCTURES OF POINT DEFECTS IN LITHIUM NIOBATE

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S u m m a r y

A detailed analysis and a classification of possible complexes of impurities and intrinsic defects in lithium niobate crystals are presented together with experimental data on lattice locations of most studied dopants. The necessity of a charge compensation for non-isovalent substitution leads to the creation of families of electrically non-equivalent impurity centers. Such satellite centers have different relative locations of the impurity ion and its charge compensator. Advantages and disadvantages of non-stoichiometric and stoichiometric crystals for the investigation of impurity centers are discussed.