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Comparative study of dielectric properties of Ternary Alkali Halide crystals

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Abstract : Crystals, especially alkali halides are the ideal ones for theoretical as well as experimental research. In modern day technology, crystal growth research has been the important subject in materials science and condensed matter physics, because of their importance in the modern devices. Present work deals with growth of alkali halide single crystals of various compositions containing KCl, KBr, NaCl, NaBr and NaI. Two sets of ternary crystals were grown using these alkali halides. A comparative study of dielectric studies and A.C. conductivity as a function of frequency has been carried out for both the sets of crystals.

Key words : Ternary crystals, Dielectric constant, A.C. Conductivity.

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