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Domain Statistics Analysis of Disordered Structures via Second Harmonic Generation

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We show a method to experimentally characterize the any 2D random distribution of ferroelectric domains in a nonlinear crystal such as SBN, which is difficult to observe by other methods. It is based on second harmonic diffraction of light pulses and it allows us to determine the domain size distribution. Comparison with simulation results shows good agreement. It has also been used to characterize more complicated domain distributions.

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