

Oral Presentation

[LCT1]Evaluation Techniques

Chair: Masaru Inoue (Toyo Tech. LLC)

Co-Chair: Yoshinori Iwashita (DIC)

Wed. Nov 27, 2019 1:40 PM - 3:00 PM Room 107 (1F)

2:20 PM - 2:40 PM

[LCT1-3]Second-Harmonic Imaging of Flexoelectric Polarization in Various Liquid Crystal Cells

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Keywords: Flexoelectric effect, SHG microscopy, Nematic, IPS cell

Since the flexoelectric polarization of LCs attracts much attention in the LCD industry, we visualize the flexoelectric polarization in nematic LCs with SHG microscopy. The observed flexoelectric polarization is induced by applying an electric field to various nematic LCs with positive or negative dielectric anisotropy in several types of cells.