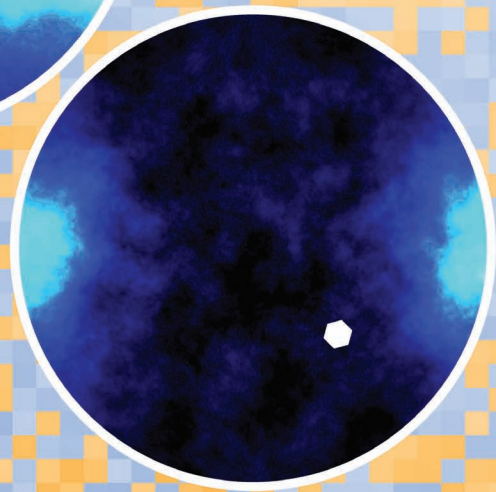
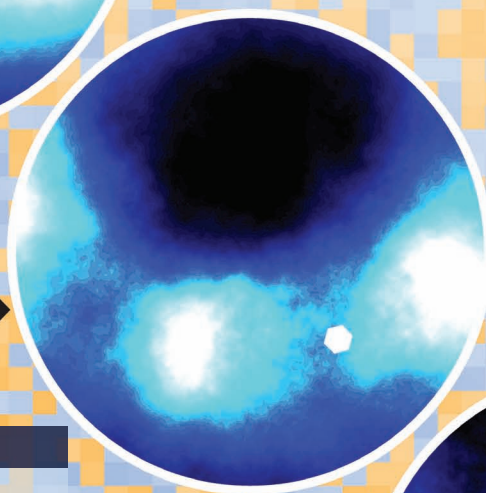
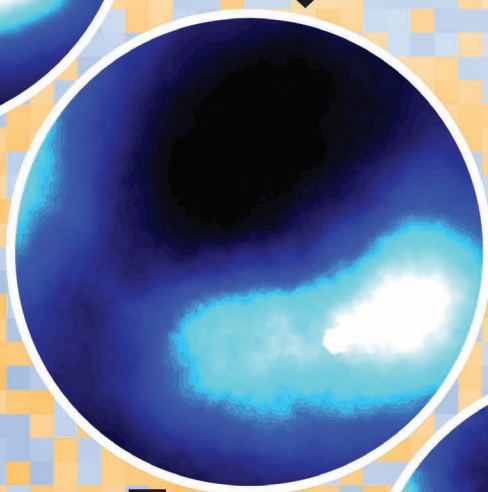
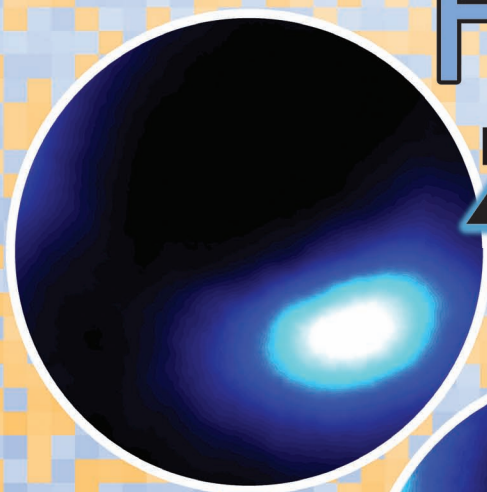


# ADVANCED FUNCTIONAL MATERIALS



## PIEZOELECTRIC MATERIALS

The local structure of a lead-free piezoelectric is reported by Dean S. Keeble and co-workers on page 185. Pair distribution function analysis of  $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$  is utilized to reveal the complex behavior of the  $\text{Bi}^{3+}$  and  $\text{Na}^+$  cations, resolving the average structure of the two mixed site cations independently. In particular, the authors observe a “bifurcated” polarization rotation of the bismuth cations, essentially convoluting previous suggestions of (singular) polarization rotation and of phase coexistence.