

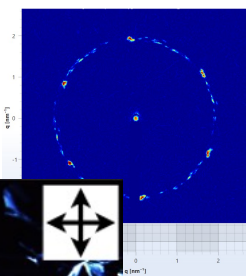
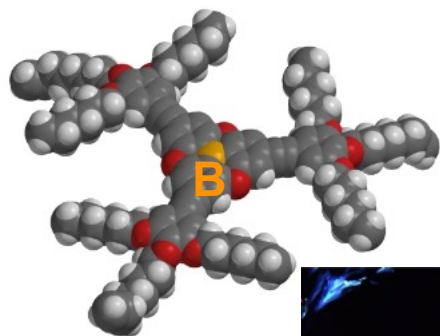
Development of boron-containing liquid-crystalline elastomers and mechanical control of charge transport

Principal investigator: Masafumi Yoshio (NIMS)

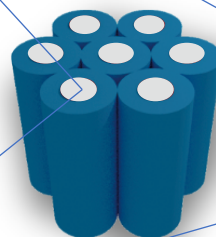
Our Mission : Beyond condensed conjugation

Aims of A04-7

- Synthesis of boron-conjugated liquid-crystalline elastomers
- Control of π -stacking and charge transport by mechanical stretching



Preservation of vertical alignment through *in-situ* photopolymerization



LC elastomer

Stretched LC elastomer

Enhanced charge transport

Close packing of the empty p -orbitals in discotic triarylborons and cyclophanes