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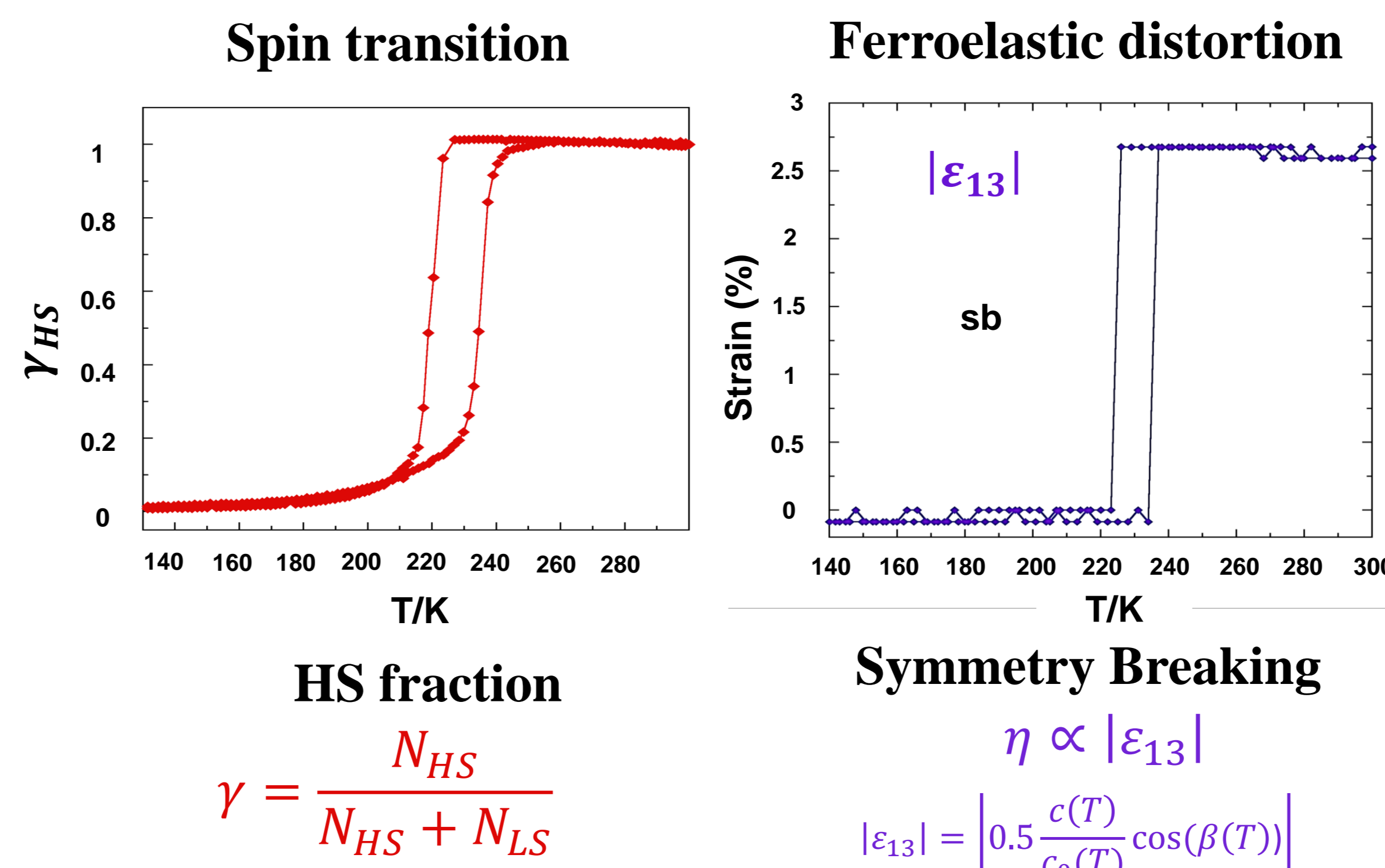
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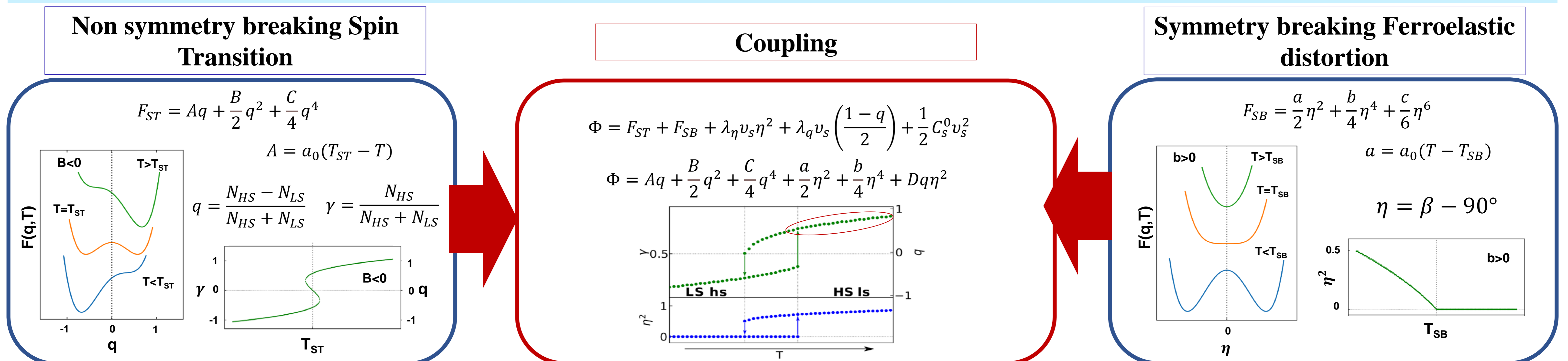
$\text{Fe}(\text{PM-PEA})_2(\text{NCS})_2$

- SCO mononuclear complex.
- Spin transition \rightarrow Unsymmetric hysteresis loop.
- **Unusual behavior:**
 - Low T, low-spin (LS) phase is high symmetry (hs): Orthorhombic Pccn
 - High T, high-spin (HS) phase is low symmetry (ls): Monoclinic $P2_1/c$
- **Motivation:**
 - Understand:
 - Coupling (symmetry breaking ferroelastic distortion and non symmetry breaking spin transition)
 - HS ls and LS hs phases

Experimental curves



Previous Theoretical Model (Collet & Azzolina, 2021)



Strong coupling limit model

