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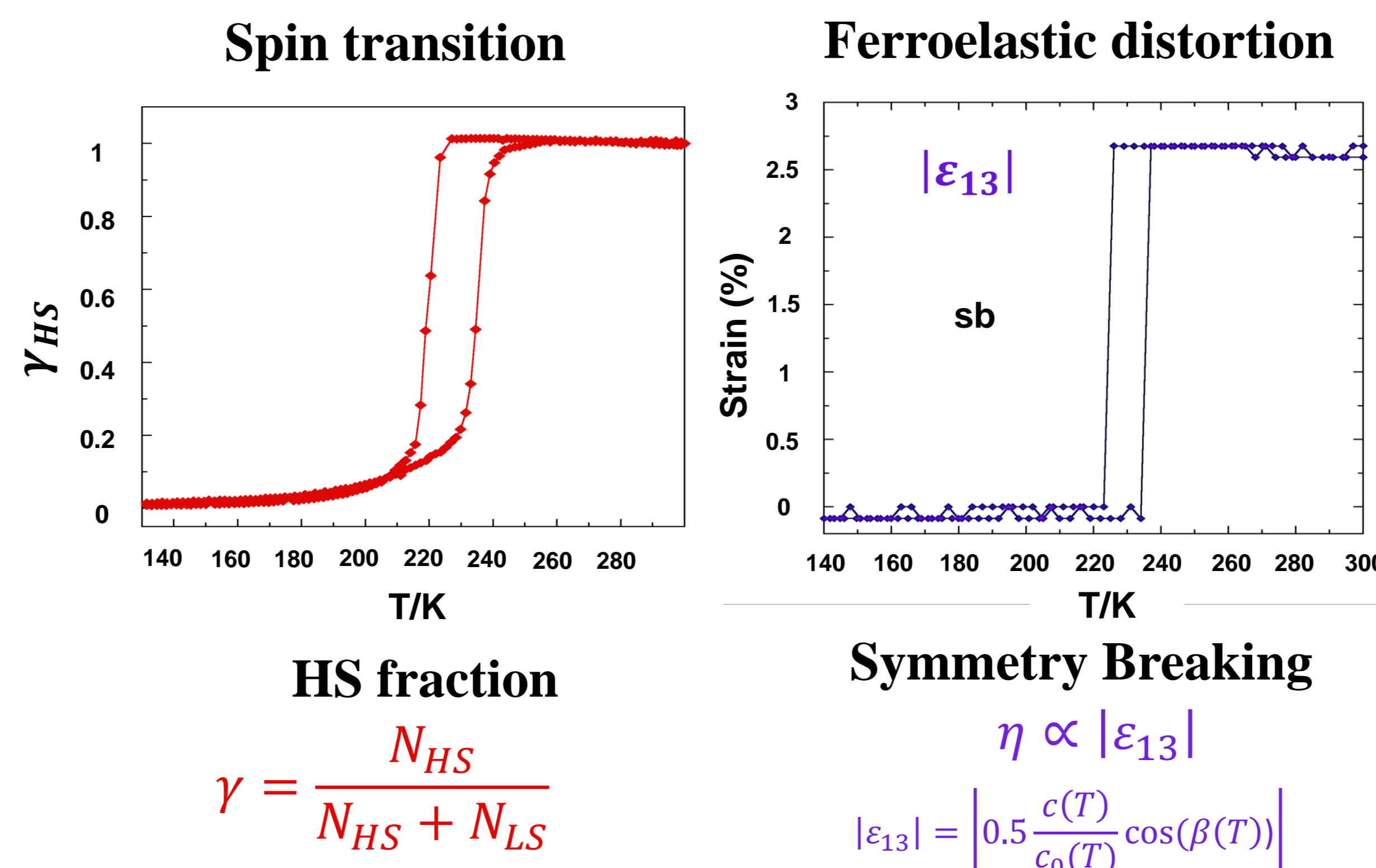
Ricardo G. TORRES¹, Francisco Javier VALVERDE-MUÑOZ^{1,2}, Elzbieta TRZOP^{1,3}, Eric COLLET^{1,3}, Guillaume CHASTANET⁴

¹Univ Rennes, CNRS, IPR (Institute de Physique de Rennes), UMR 6251, F-35000 Rennes, France; ²Instituto de Ciencia Molecular, Departamento de Química Inorgánica, Universidad de Valencia, 46980 Paterna, Valencia, Spain; ³DYNACOM IRL2015 University of Tokyo - CNRS - URI, Department of Chemistry, 7-3-1 Hongo, Tokyo 113-0033 – Japan; ⁴ICMCB – UMR5026 87, Avenue du Docteur Schweitzer 33608 PESSAC cedex, France.

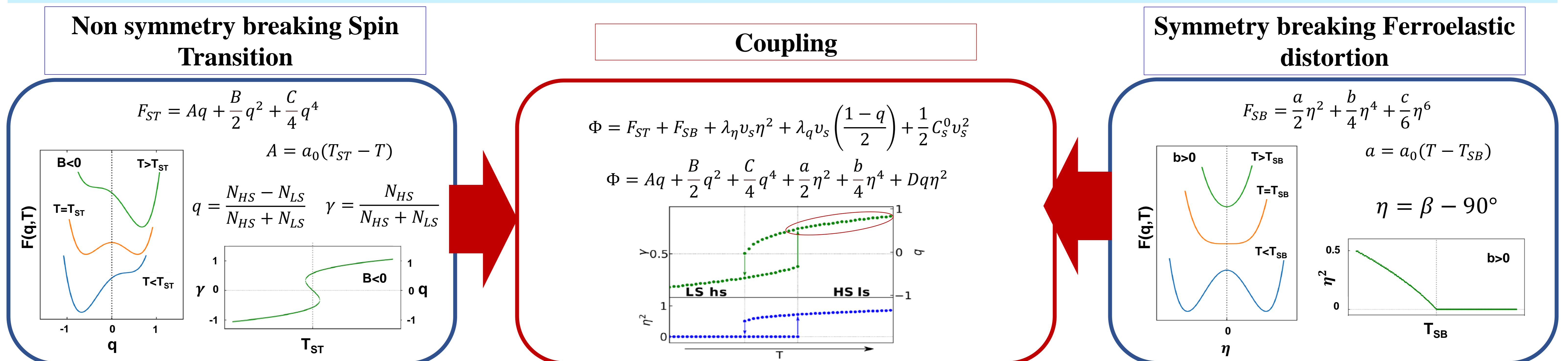
$\text{Fe}(\text{PM-PEA})_2(\text{NCS})_2$

- 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 P2₁/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

