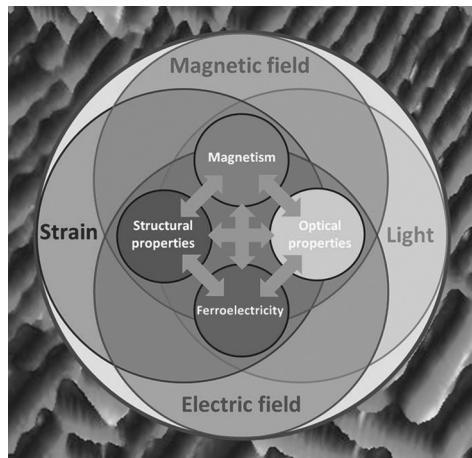


COMPTES RENDUS PHYSIQUE

Tome 16 (2015) – N° 2



© Agnès Barthélémy, Thales Group, France.

DOSSIER

Multiferroic materials and heterostructures / Matériaux et hétérostructures multiferroïques

Coordinators / Coordinateurs : Manuel Bibes, Agnès Barthélémy

• Foreword Manuel Bibes, Agnès Barthélémy	139
• Preamble Hans Schmid	141
• Mechanisms and origin of multiferroicity Paolo Barone, Silvia Picozzi	143
• Novel magneto-electric multiferroics from first-principles calculations Julien Varignon, Nicholas C. Bristowe, Éric Bousquet, Philippe Ghosez	153
• Artificial multiferroic heterostructures for an electric control of magnetic properties Vincent Garcia, Manuel Bibes, Agnès Barthélémy	168
• Bismuth-based perovskites as multiferroics Mael Guennou, Michel Viret, Jens Kreisel	182
• Strain effects on multiferroic BiFeO ₃ films Yurong Yang, Ingrid C. Infante, Brahim Dkhil, Laurent Bellaiche	193
• Multiferroic RMnO ₃ thin films Josep Fontcuberta	204
• Domains and domain walls in multiferroics Sylvia Matzen, Stéphane Fusil	227
Article original / Original article	
• La vitesse critique de Landau d'une particule dans un superfluide de fermions Yvan Castin, Igor Ferrier-Barbut, Christophe Salomon	241