

REVIEWS of MODERN PHYSICS

Volume 90, Number 4, October–December 2018

- 040501 Nobel Lecture: LIGO and the discovery of gravitational waves I
Rainer Weiss
- 040502 Nobel Lecture: LIGO and gravitational waves II
Barry C. Barish
- 040503 Nobel Lecture: LIGO and gravitational waves III
Kip S. Thorne
- 041001 *Colloquium*: Nonequilibrium effects in superconductors with a spin-splitting field
F. Sebastian Bergeret, Mikhail Silaev, Pauli Virtanen, and Tero
T. Heikkilä
- 041002 *Colloquium*: Phononic thermal properties of two-dimensional materials
Xiaokun Gu, Yujie Wei, Xiaobo Yin, Baowen Li, and
Ronggui Yang
- 045001 Collective behavior of colloids due to critical Casimir interactions
Anna Maciolek and Siegfried Dietrich
- 045002 History of dark matter
Gianfranco Bertone and Dan Hooper
- 045003 APS Medal for Exceptional Achievement in Research: Invited article
on entanglement properties of quantum field theory
Edward Witten
- 045004 Physics of liquid crystals of bent-shaped molecules
Antal Jákli, Oleg D. Lavrentovich, and Jonathan V. Selinger
- 045005 Highly charged ions: Optical clocks and applications in fundamental physics
M. G. Kozlov, M. S. Safronova, J. R. Crespo López-Urrutia, and
P. O. Schmidt
- 045006 Deformation and flow of amorphous solids: Insights from elastoplastic models
Alexandre Nicolas, Ezequiel E. Ferrero, Kirsten Martens, and
Jean-Louis Barrat



Polarized optical microscopy texture of the prototypical bent-core material with undulated smectic layers. [Antal Jákli, Oleg D. Lavrentovich, and Jonathan V. Selinger, Rev. Mod. Phys. **90**, 045004 (2018)]



0034-6861(201810)90:4*1;1-7