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Cosmic microwave background polarization analysis. (English) [Zbl 1179.85027](#)

Martínez, Vincent J. (ed.) et al., Data analysis in cosmology. Berlin: Springer (ISBN 978-3-540-23972-7/hbk). Lecture Notes in Physics 665, 121-158 (2009).

Summary: With polarization of the cosmic microwave background (CMB) now detected, and confirmed by several independent experiments, the next goal is to characterize accurately its statistical properties. In these lecture notes we review the physical motivation for pursuing CMB polarization and the basic statistical properties of the polarization fields. We then discuss some of the key aspects of the analysis of CMB polarization data, focusing on the additional complications that arise compared to temperature data due to the tensor character of the polarization field.

For the entire collection see [\[Zbl 1152.83004\]](#).

MSC:

[85A40](#) Cosmology

[85A25](#) Radiative transfer in astronomy and astrophysics

[85A35](#) Statistical astronomy

Cited in **2** Documents

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