

RESEARCH ARTICLE |
DECEMBER 23 2011

Optical Probing of metamagnetic phases in epitaxial EuSe

G. D. Galgano; A. B. Henriques;
G. Bauer; G. Springholz



AIP Conference Proceedings 1399, 671–672 (2011)

<https://doi.org/10.1063/1.3666555>

EuSe is a wide gap magnetic semiconductors with a potential for applications in proof-of-concept spintronic devices. When the temperature is lowered, EuSe goes through sharp transitions between a variety of magnetic phases and is thus described as metamagnetic. The purpose of the present investigation is to correlate the magnetic order to the sharp dichroic doublet, discovered recently in high quality thin epitaxial layers of EuSe, grown by molecular beam epitaxy. We report detailed measurements of the

doublet positions and intensities as a function of magnetic field in low temperatures, covering several magnetic phases.

Topics

[Magnetic ordering](#),
[Semiconductors](#), [Spintronic devices](#), [Epitaxy](#).

This content is only available
via PDF.

© 2011 American Institute of Physics.

You do not currently have
access to this content.

Sign in

Don't already have an
account? [Register](#)

Sign In

Username

Password



I'm not a robot

reCAPTCHA
Privacy - Terms

[Reset password](#)

[Register](#)

**Sign in via your
Institution**

[Sign in via your Institution](#)

Pay-Per-View Access
\$40.00



BUY THIS ARTICLE