
COLLOQUIUM

**Ellipsometry in Leipzig - examples for applications and
technical developments - special focus: magnetic
Spinel's**

Speaker:

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Place:

ISAS, Schwarzschildstraße 8, Room 218
12489 Berlin

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Contact:

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I will present some recent topics of ellipsometry we are dealing with in Leipzig.

In particular I will discuss challenges but also new insights one can get in photonic, electronic and phonon properties when dealing with highly anisotropic materials or structures. Here I will show two examples, the dielectric function tensor of monoclinic β -Ga₂O₃ and mode properties of non-inversion symmetric and effectively orthorhombic microcavities. Further I will present our recent developments regarding time-resolved ellipsometry on the fs time scale.

In the main part I will discuss the interplay between optical and magnetic properties of ordered and disordered iron-containing Spinel's.