

Boron chalcogenides under extreme conditions

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This thesis deals with the study of the boron chalcogenides under extreme conditions. The studies of binary B-O and B-S systems have been devoted to the EOS measurements and to the investigations of the phonon properties at ambient and high pressures of two known boron chalcogenides: high-pressure phase of boron (III) oxide (β -B₂O₃) and rhombohedral boron monosulfide (*r*-BS). We believe that these accurate investigations will give an important and valuable information for the further studies and practical applications of these compounds. Moreover, the preliminary investigation of the poorly studied B-Se system under extreme conditions in order to explore new binary compounds has been also performed. A new metastable at ambient conditions compound was synthesized. Its probable chemical composition and structure were discussed.

La soutenance aura lieu devant le jury composé de :

Jean-Louis Hodeau (Institut Neel, CNRS)
Fernando Rodriguez (Universidad de Cantabria)
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Vous êtes cordialement invités au pot qui suivra

Formalités d'entrée : accès libre dans l'amphi du pavillon d'Accueil.

Si la manifestation a lieu dans le Grand Amphi SOLEIL du Bâtiment Central merci de vous munir d'une pièce d'identité
(à échanger à l'accueil contre un badge d'accès)

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THÈSE