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SIT39-P04

会場:コンベンションホール

時間:5月24日16:15-17:30

GHz音速法とブリリュアン散乱法の併用によるマントル鉱物のその場弾性測定GHz Ultrasonic and Brillouin scattering in a Diamond Anvils Cell

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Advances in GHz ultrasonic technology have made it possible to make elastic wave measurements in a diamond anvils cell (DAC). This new technique is a powerful method to explore fundamental problems in earth physics and material science because of the faculties of the DAC to withstand extreme conditions. Combining GHz ultrasonic, Brillouin scattering method, and DAC, we can investigate elastic properties of mantle minerals at the coressponding pressure and temperature condition at the deep mantle.

キーワード: GHz 音速法, ブリリュアン散乱, ダイヤモンドアンビル, マントル鉱物, 弾性 Keywords: GHz ultrasonic, Brillouin scattering, Diamond Anvils Cell, mantle mineral, elasticity

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