

Geodynamics Seminar

第314回ジオダイナミクスセミナー

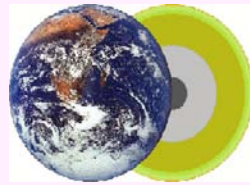
Multimegabar phase relations of silicates and planetary interiors

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主催: 愛媛大学地球深部ダイナミクス研究センター

日時: 1/20(金) 午後 4時30分～

場所: 総合研究棟 4F 会議室



Abstract

Ultrahigh-pressure phase relations of major Earth and planetary materials are important to model the interior of giant planets and exoplanets. Unlike for relatively simple materials those of silicates are still remain quite unclear. So we are exploring ultrahigh-pressure structures from the multimegabar to terapascals range by means of ab initio computation technique and have already discovered several quite unexpected and intriguing phenomena. In this seminar I am going to report our recent outputs on the ultrahigh-pressure phase relations of silica and silicates including melting transitions and discuss some new insights on the planetary interiors.