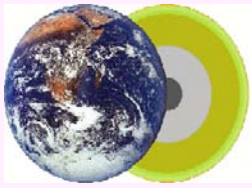
Geodynamics Seminar

第323回ジオダイナミクスセミナー

Synthesis of high-quality sintered bodies of polycrystalline minerals at high pressure: Let's make poly-gems

Dr. Irifune Tetsuo (Professor & Director, GRC)

主催：愛媛大学地球深部ダイナミクス研究センター
日時：3/16（金）午後 4時30分～
場所：総合研究棟 4F 会議室



EHIME UNIVERSITY GRC GEODYNAMICS RESEARCH CENTER

Abstract

One of the targets of SOSEKI lab is to make new materials utilizing the advantage of larger sample volumes under better-controlled pressure and temperature in Kawai-type multianvil apparatus (KMA) relative to those available in competitive diamond anvil cell. Nano-polycrystalline diamond (NPD or HIME-diamond) is an example of such outcomes from SOSEKI lab, followed by some novel materials including nano-polycrystalline stishovite (NPS). Making high-quality consolidated polycrystalline samples of high-pressure phases are also important for precise measurements of their physical properties. I will briefly review some of such polycrystalline materials synthesized in the Ultrahigh Pressure and Materials Synthesis groups of GRC, and discuss basic principles and practical methods to make gem-quality polycrystalline minerals ("poly-gems") using state-of-the-art KMA technology.

詳細は当センターホームページ: http://www.ehime-u.ac.jp/~grc/をご覧ください
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