

平成 29 年度

第 9 回 先端エネルギー理工学セミナーのお知らせ

Seminar on Advanced Energy Engineering Science

下記のとおり、先端エネルギー理工学セミナーを開催致します。通常通り単位取得の一環になりますので、奮って参加いただきますよう、ご案内申し上げます。

記

対象：大学院学生(修士、博士) / For master students and Ph.D. students

日時：2018年3月8日(木) 14:50-16:20 / March 8, 2018 time: 14:50-16:20

場所：応用力学研究所 2階大会議室 / Meeting Room on 2F in RIAM building

講演者：Julian Mak  
Oxford University, Department of Physics

講演題目：Eddy saturation from a geometrically informed, energetically constrained mesoscale eddy parameterisation

Baroclinic instability of a stratified rotating fluid is the primary mechanism for mesoscale eddy activity in the ocean. The mesoscale eddy field is crucial in shaping the ocean mean state (i.e. climatology), however ocean climate models often do not explicitly resolve the mesoscale eddy field. Increasingly it has been found that standard parameterisation schemes for mesoscale eddies are unable to reproduce the climatological sensitivity of models that permit an explicit mesoscale eddy field for the same changes in forcing. A geometrically informed, energetically constrained mesoscale parameterisation is proposed and implemented in a hierarchy of ocean relevant models. It is found that various climatological responses under changing wind forcing are substantially improved; in particular, the proposed scheme provides a first instance where eddy saturation is reproduced in an internally consistent manner.

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Not only students for Department of Advanced Energy Engineering Science but other departments' students are also welcomed to audit the seminars.

\*Recognition of credit for the Special Lecture 1st<M3901> is only applicable for seminars conducted in English.

【単位認定について】 先端エネルギー理工学特別講義 第二<M3902>の単位として認定されます。\*  
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