

学术报告

题目: Toward Atomic Pressures

报告人: Raymond Jeanloz 美国国家科学院院士

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报告简介:

Static high-pressure experiments reach conditions at which the chemical bond is fundamentally changed, and are complemented by dynamic laser-compression methods that can achieve Gbar pressures at which atomic structure is altered. The combination of static and dynamic methods, with samples probed by spectroscopy and diffraction, opens a new regime of “kilovolt chemistry” at which core-electron orbitals participate in bonding, and theory is both challenged and extended.

报告人简介:

Raymond Jeanloz, Professor of Earth and Planetary Science and of Astronomy at the University of California, Berkeley. After completing his bachelor's degree (Amherst College, 1975), he received his Ph.D. from the California Institute of Technology in 1979, and joined the faculty of Harvard University before moving to UC Berkeley in 1981. In addition to research and teaching, he has been an adviser to the University and to the U.S. Government in areas of resources and environment as well as national and international security.



He is the Chair of the Committee on International Security and Arms Control at the US National Academy of Sciences. He previously chaired the National Research Council's Board on Earth Sciences and Resources, and has served as an adviser to the Department of Energy, National Science Foundation and NASA, as well as the Directors of Los Alamos and Lawrence Livermore National Laboratories.

His scientific research, on the properties of materials at high pressures and temperatures and on the constitution and evolution of planetary interiors, has been recognized through fellowship in the American Academy of Arts and Sciences, American Association for the Advancement of Science and American Geophysical Union, membership in the US National Academy of Sciences, and a MacArthur Fellowship. He also own Hans Bethe Award of Federation of American Scientists and Leo Szilard Lectureship Award of the American Physical Society.

Raymond Jeanloz教授是美国国家科学院院士、美国总统科技顾问、加州大学伯克利分校的天文学和地球与行星科学家。他在高压凝聚态物理、地球和天体科学、地质科学等领域享有盛誉。他也是著名国际刊物Phys. Rev. Letters的特别编辑，发表了300多篇学术论文，其中在Science, Nature, Phys. Rev. Lett. 杂志上发表数十篇论文。

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