

# DAVID J. GROSS



Nobel Laureate in Physics 2004  
Director, Kavli Institute for Theoretical Physics  
University of California, Santa Barbara, USA

David J. Gross is Frederick Gluck Professor of Theoretical Physics and Director of the Kavli Institute for Theoretical Physics at the University of California, Santa Barbara. He is a central figure in particle physics and string theory. In 2004 Gross was awarded the Nobel Prize in Physics "for the discovery of asymptotic freedom in the theory of the strong interaction" (jointly with H. D. Politzer and F. Wilczek). Asymptotic freedom is the primary feature of non-Abelian gauge theories and the key to Quantum Chromodynamics, the theory of the Strong Nuclear Force. This concept completed the Standard Model. Gross has also made seminal contributions to the theory of Superstrings, a burgeoning enterprise that brings gravity into the quantum framework.

Die „Einstein Lectures Dahlem“ sind ein hochkarätiges und interdisziplinär ausgerichtetes Universitäts-Kolloquium am traditionellen Wissenschaftsstandort Berlin-Dahlem. Mit dieser Vorlesungsreihe würdigt die Freie Universität Berlin unter Beteiligung außer-universitärer Forschungseinrichtungen die epochale Bedeutung Albert Einsteins, der nahezu zwei Jahrzehnte in Berlin als Direktor des Kaiser-Wilhelm-Instituts für Physik wirkte.

Die „Einstein Lectures Dahlem“, die einmal pro Jahr stattfinden und eine breite Universitätsöffentlichkeit ansprechen, umfassen alle Wissenschaftsgebiete, die durch Albert Einsteins Denken beeinflusst werden.

FRIDAY  
JUNE 29<sup>th</sup>, 2012  
5:15 PM  
HENRY-FORD-BAU  
LECTURE HALL A



MAX-PLANCK-GESellschaft  
Fritz-Haber-Institut

Freie Universität  Berlin

Photo cover page inside: Albert Einstein am Collège de France, 1922 - Leo Bershad Institute, New York, USA (inv Nr.: F 5384B), layout: Stefan Karpinski, Fritz-Haber-Institut, 2012

EINSTEIN LECTURES DAHLEM

EINSTEIN'S DREAM  
OF UNIFICATION  
-  
THEN AND NOW



12th EINSTEIN LECTURE DAHLEM

FRIDAY  
JUNE 29th, 2012  
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#### Welcome

Prof. Dr. Peter-André Alt  
President of Freie Universität Berlin

#### Introduction

Prof. Dr. Matthias Scheffler  
Director at the Fritz Haber Institute

Einstein's Dream of unification - then and now  
Prof. Dr. David Gross

#### Abstract

Einstein spent the last thirty years of his life searching for a unified field theory. Prof. Gross will discuss Einstein's attempts at unification, ask why he went wrong, and wonder what might have happened if he had followed a slightly different route. In his lecture Prof. Gross will then discuss where we stand today in realizing Einstein's goals.

Following the lecture there will be a detailed discussion and a reception with the opportunity to talk with David Gross.

#### Prof. Dr. David Gross

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Seating is limited, please pre-register by sending an E-Mail to [einladung@fu-berlin.de](mailto:einladung@fu-berlin.de) until June 20, 2012.

Henry-Ford-Bau der Freien Universität Berlin  
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For more information  
<http://www.fu-berlin.de/sites/einsteinlectures/>



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