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ARNOLD SOMMERFELD  
CENTER FOR THEORETICAL PHYSICS



# Arnold Sommerfeld Lecture Series

**Professor Claudio Bunster**

**Centro de Estudios Científicos (CECs),  
Valdivia, Chile**

**Public Lecture:**

**The Principle of Least Action,  
from the "Vis-viva" to Quantum Black Holes**

The Principle of Least Action is both profound and practical . Since its first formulation by Maupertuis and Euler nearly three centuries ago, the Principle has been, and continues to be, a formidable battlehorse for penetrating uncharted territory in theoretical physics. The Principle, its connection with, and implications for, our ideas of symmetry, space, time, quantum mechanics, thermodynamics and gravitation, are glanced at.

**Monday, July 7, 2014, 17:15h, Room B052, Theresienstr. 39, LMU**

You are cordially invited to attend the reception following the public lecture on July 7.

Prof. D. Lüst, Prof. V. Mukhanov