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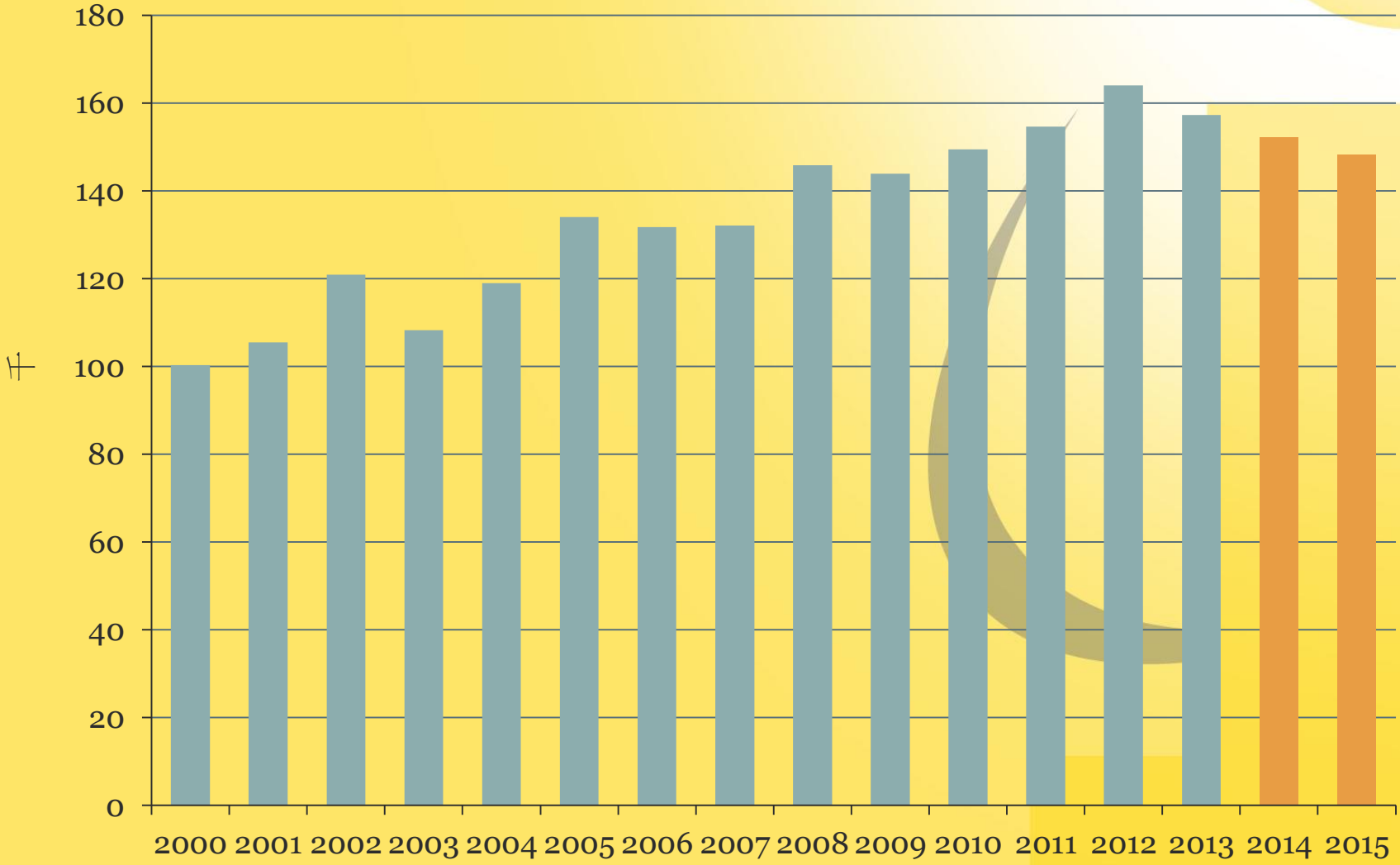
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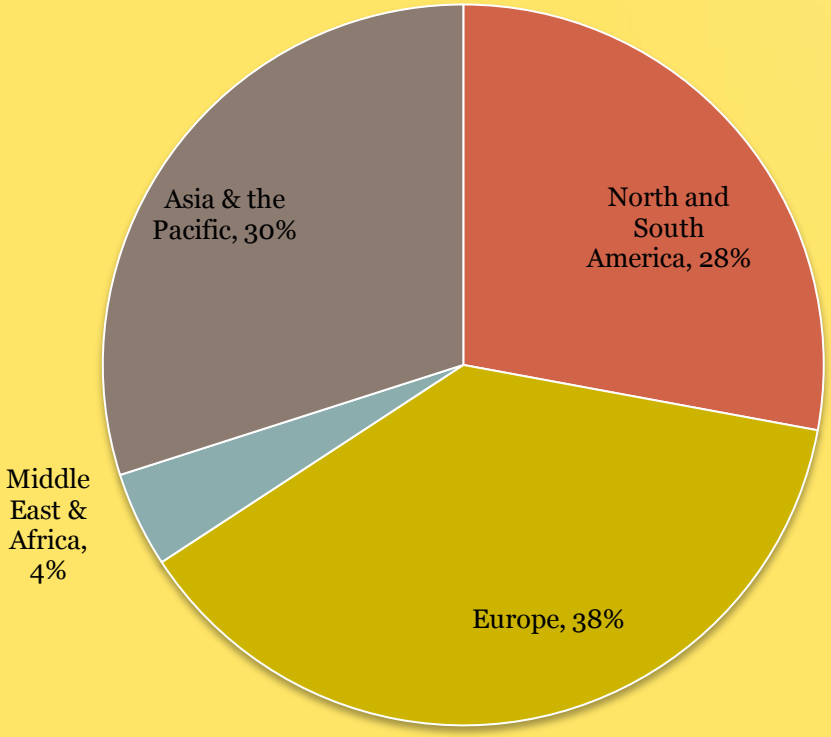

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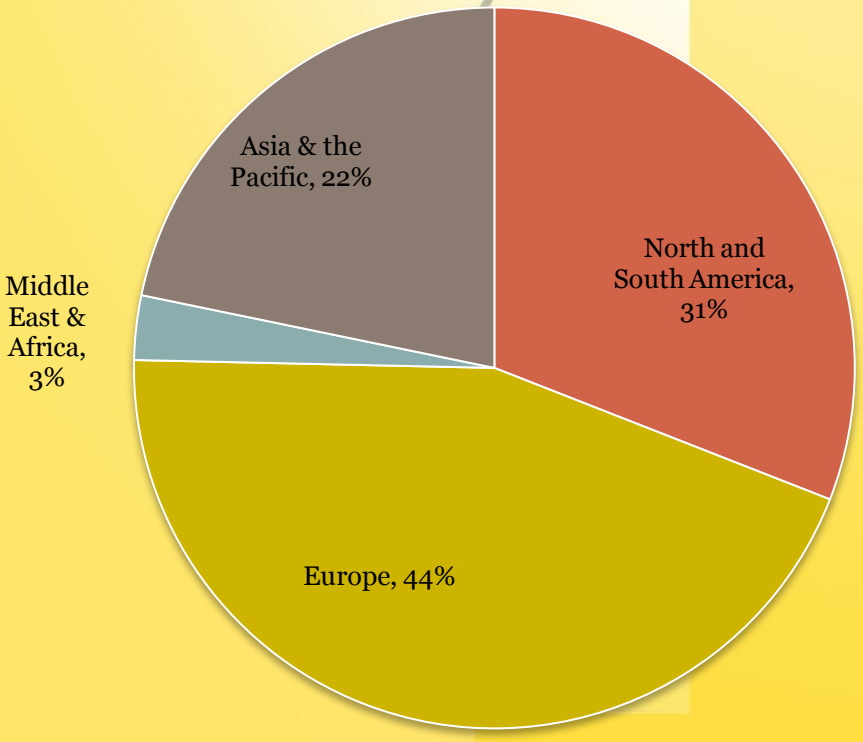

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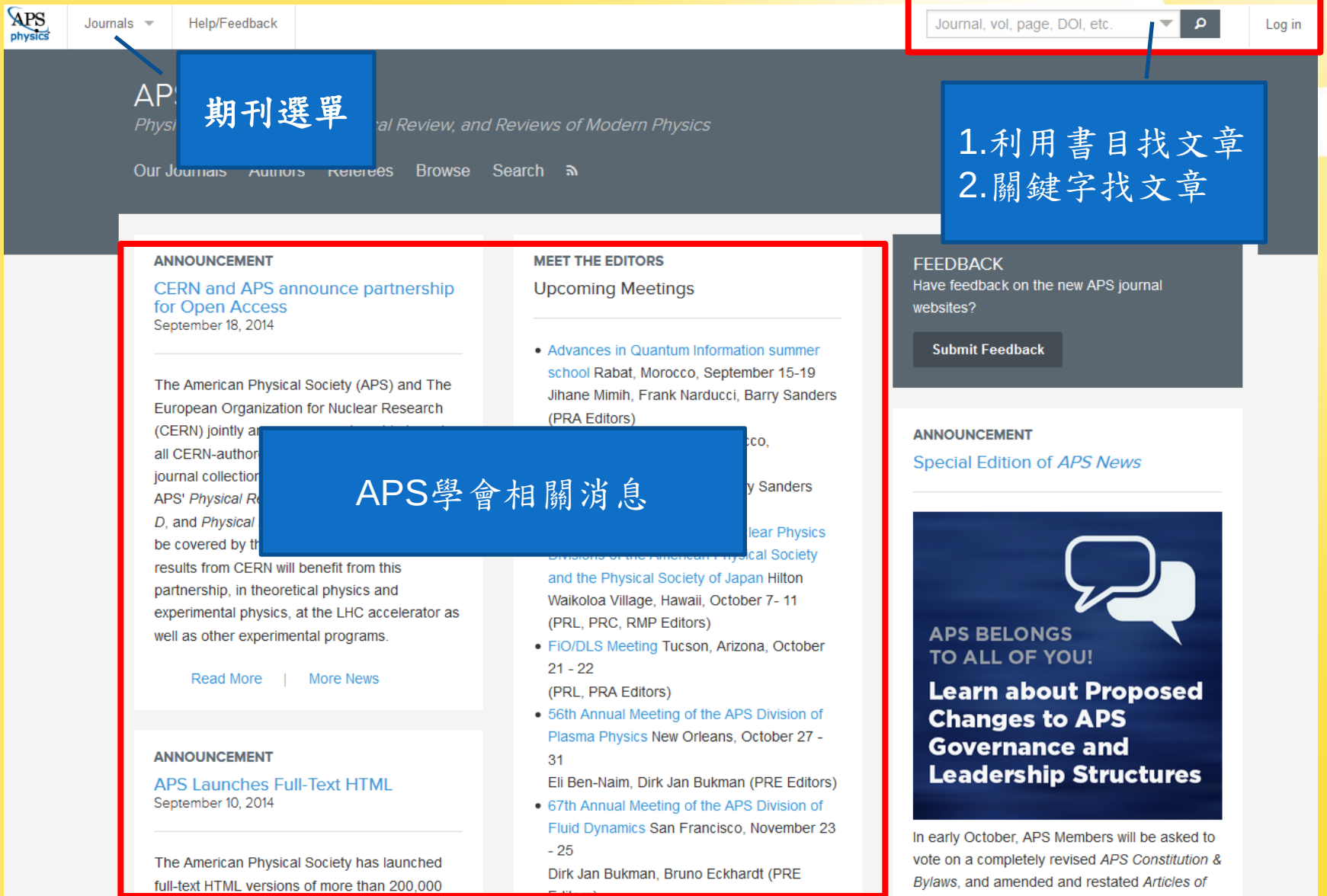

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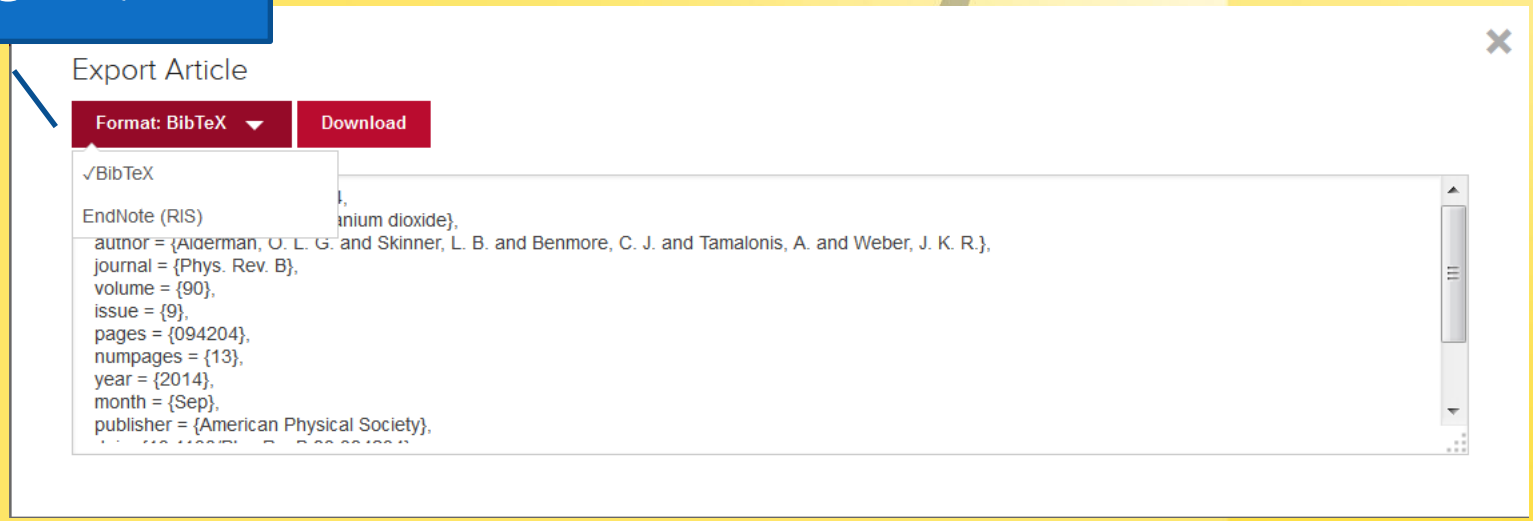

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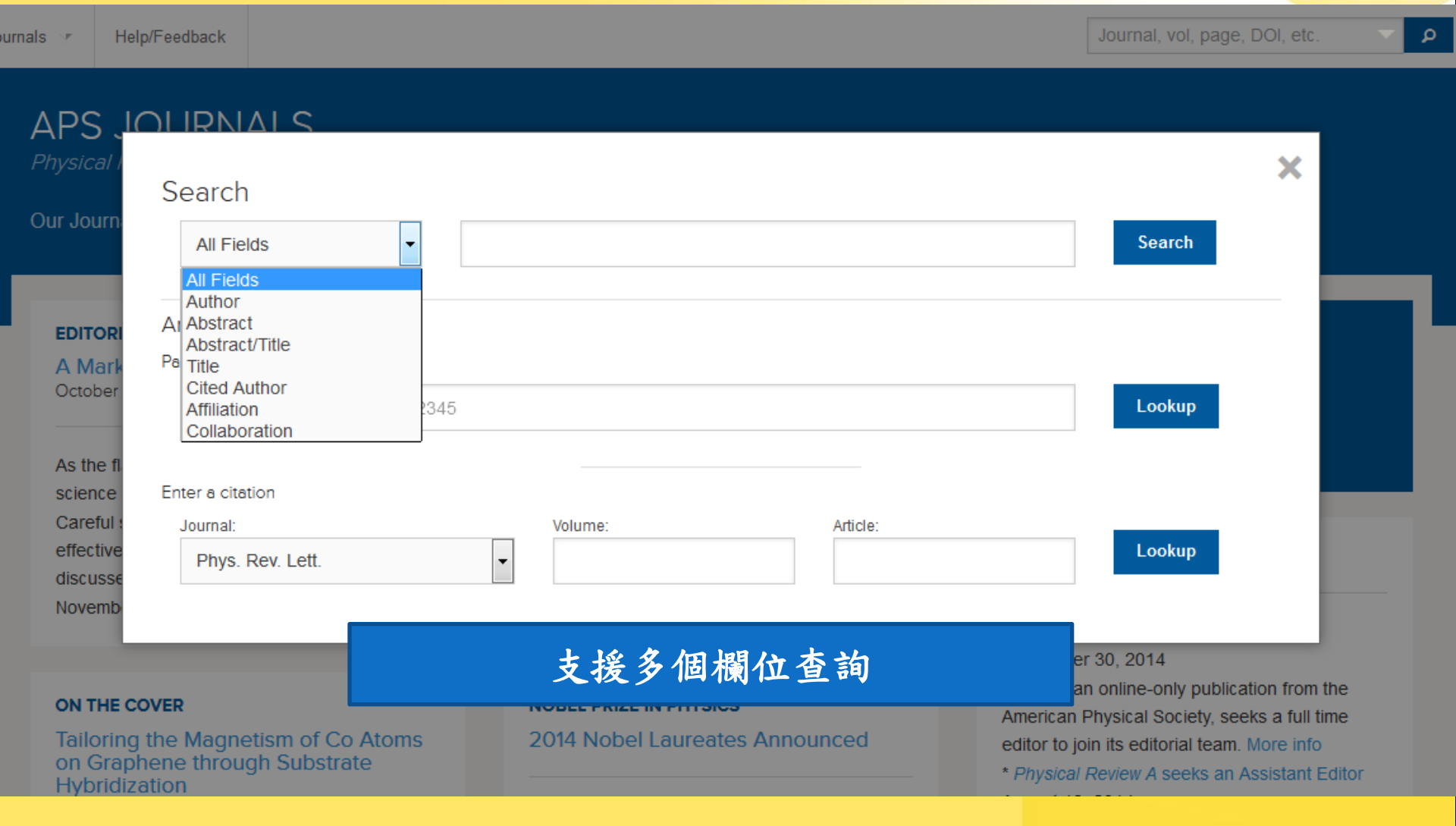
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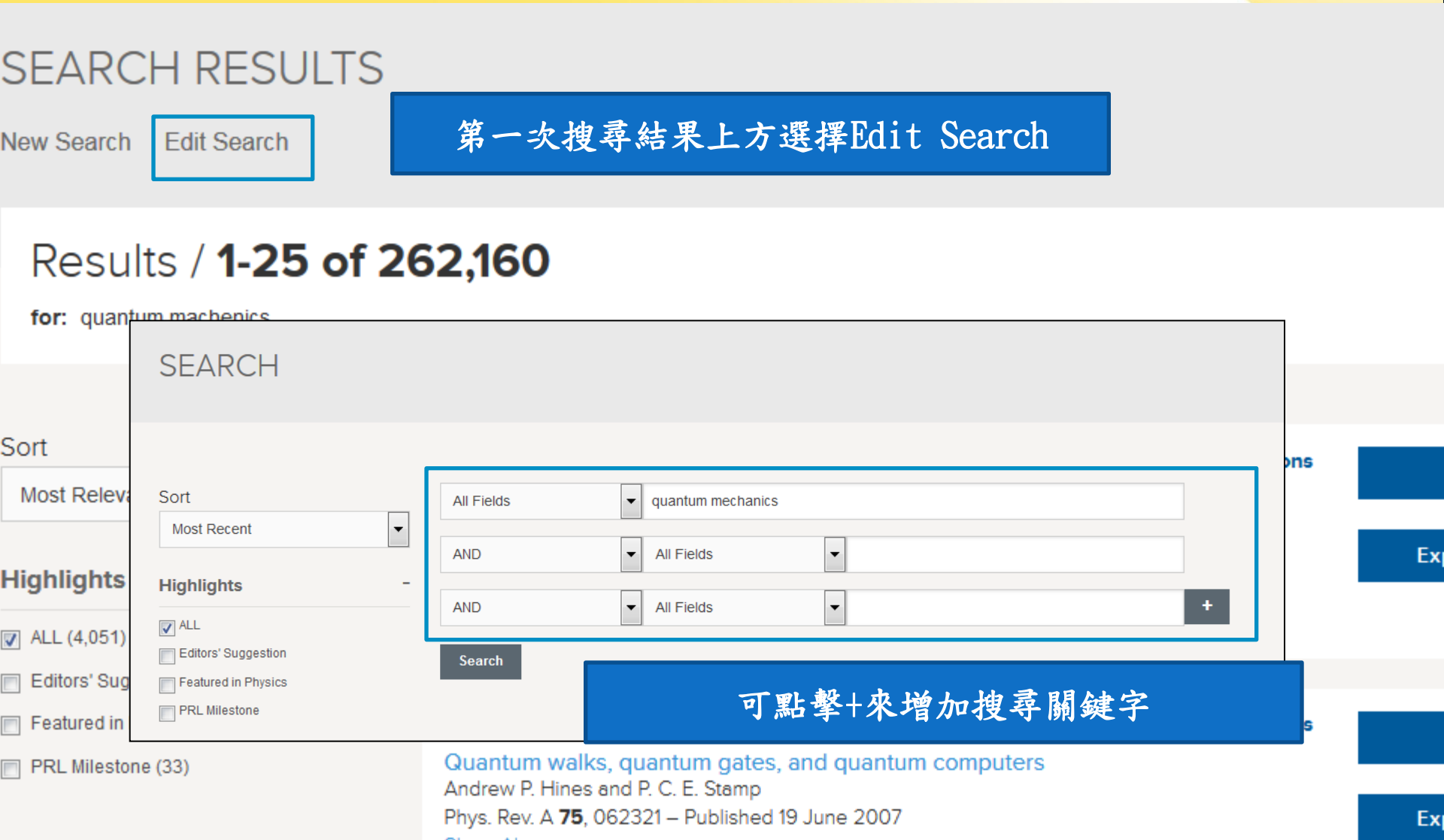
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statistical, nonlinear, and soft matter physics

Equilibration of quantum chaotic systems

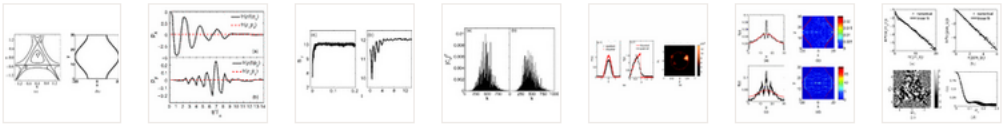
Phys. Rev. E **88**, 062147 – Published 27 December 2013

Quntao Zhuang (庄群韬) and Biao Wu (吴飙)

ABSTRACT

The quantum ergordic theorem for a large class of quantum systems was proved by von Neumann [Z. Phys. **57**, 30 (1929)] and again by Reimann [Phys. Rev. Lett. **101**, 190403 (2008)] in a more practical and well-defined form. However, it is not clear whether the theorem applies to quantum chaotic systems. With a rigorous proof still elusive, we illustrate and verify this theorem for quantum chaotic systems with examples. Our numerical results show that a quantum chaotic system with an initial low-entropy state will dynamically relax to a high-entropy state and reach equilibrium. The quantum equilibrium state reached after dynamical relaxation bears a remarkable resemblance to the classical microcanonical ensemble. However, the fluctuations around equilibrium are distinct: The quantum fluctuations are exponential while the classical fluctuations are Gaussian.

DOI: http://dx.doi.org/10.1103/PhysRevE.88.062147



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Published 27 December 2013 Received 20 August 2013 Revised 13 November 2013

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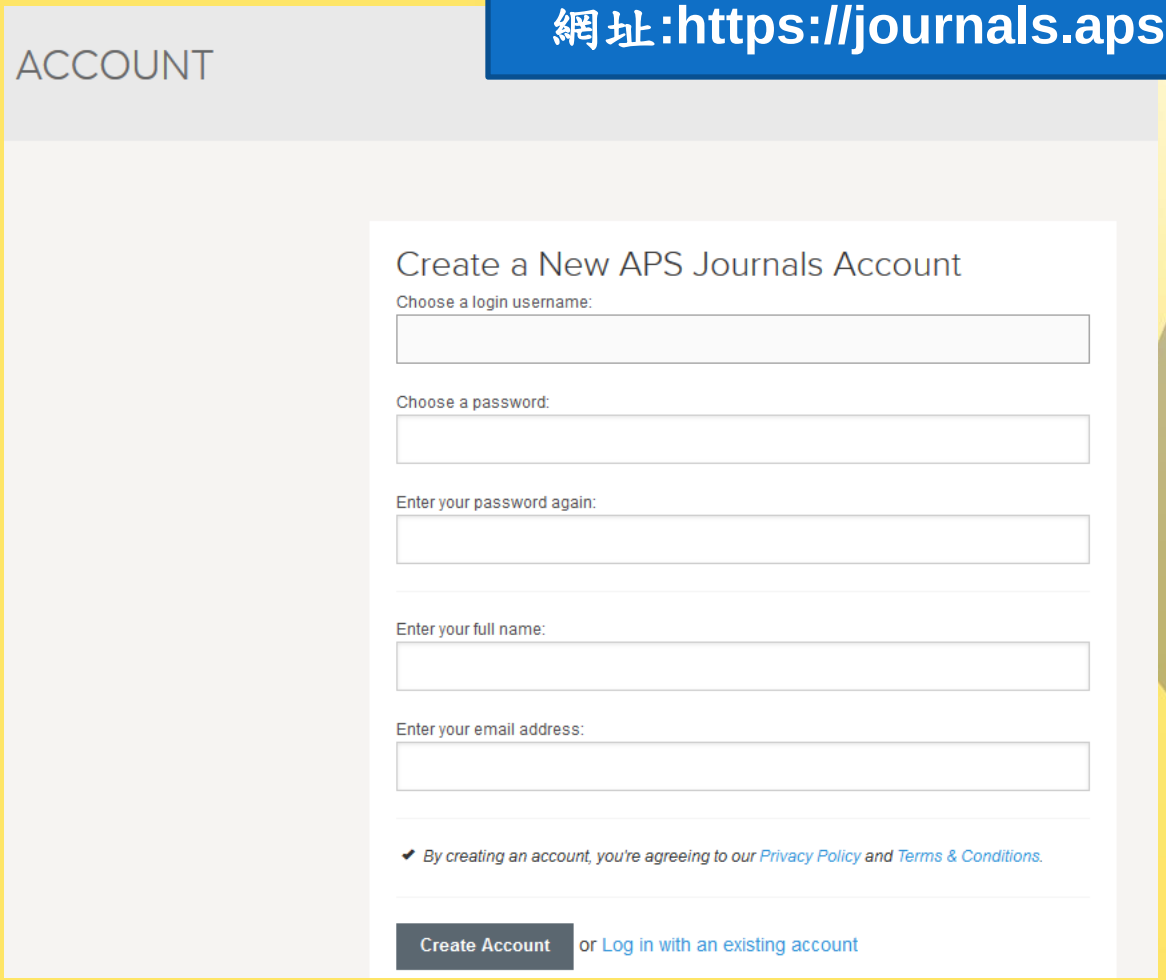

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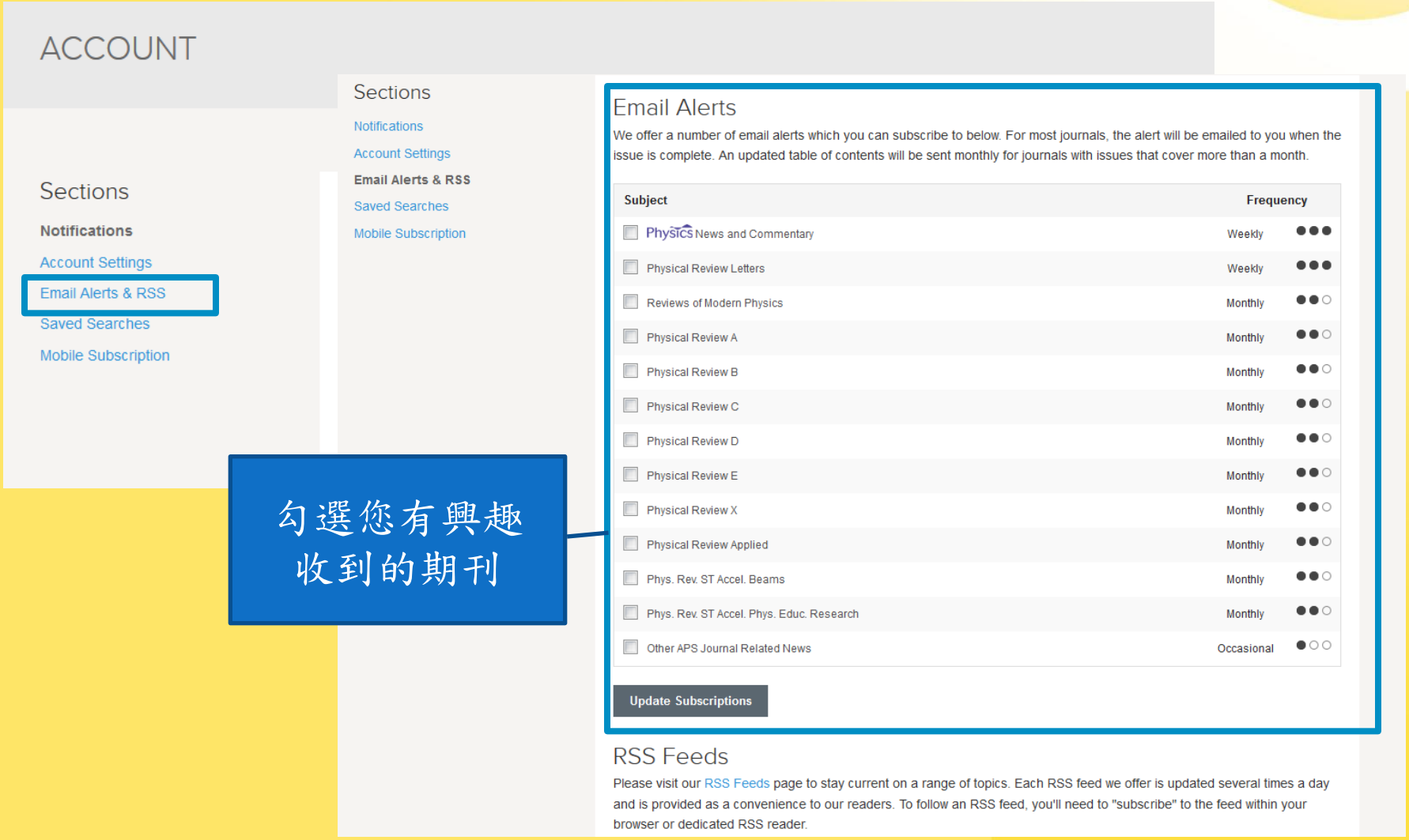

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