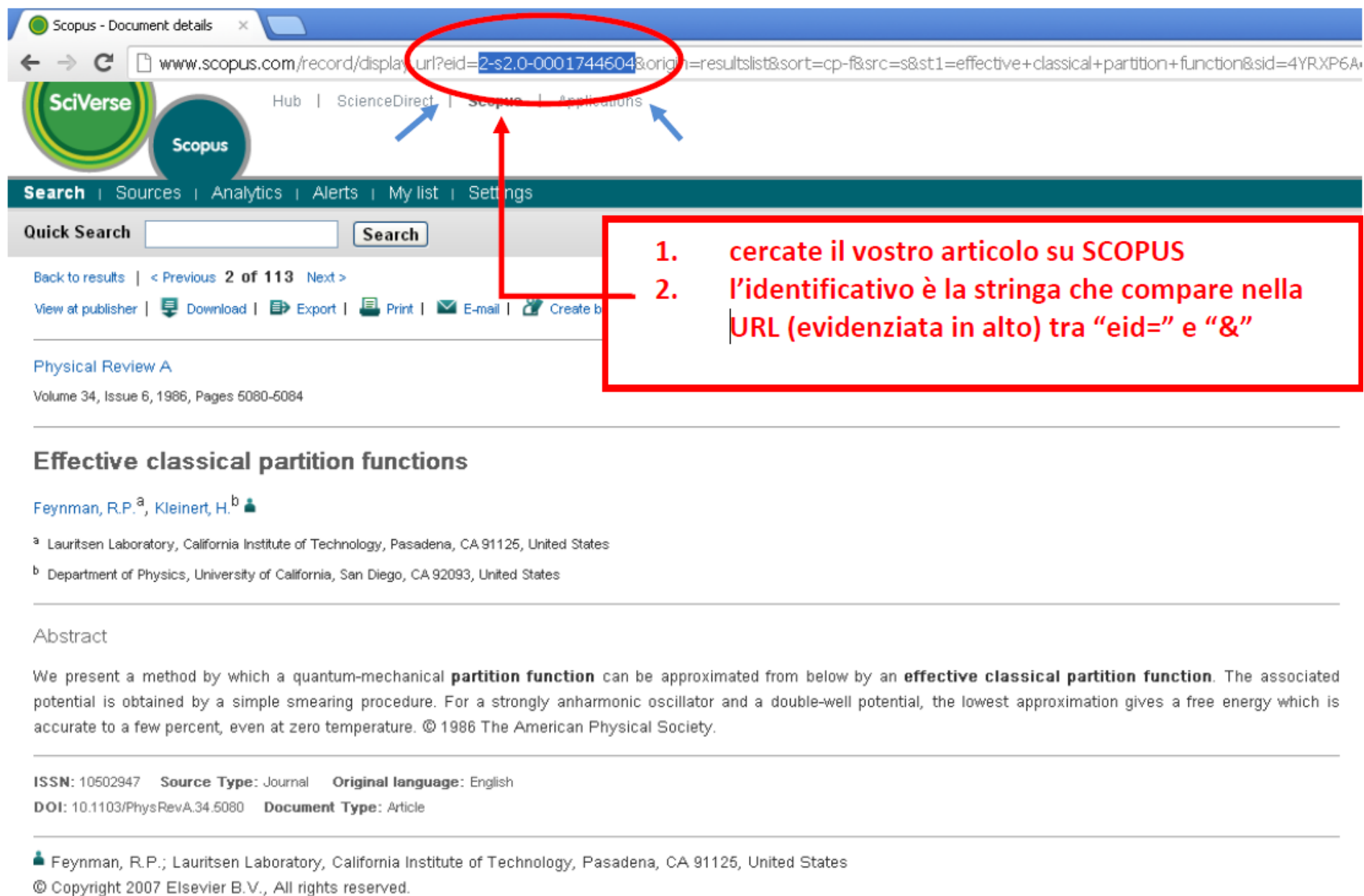


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The page content includes the journal title *Physical Review A*, Volume 34, Issue 6, 1986, Pages 5080-5084, and the article title **Effective classical partition functions** by Feynman, R.P.<sup>a</sup> and Kleinert, H.<sup>b</sup>. The abstract states: "We present a method by which a quantum-mechanical **partition function** can be approximated from below by an **effective classical partition function**. The associated potential is obtained by a simple smearing procedure. For a strongly anharmonic oscillator and a double-well potential, the lowest approximation gives a free energy which is accurate to a few percent, even at zero temperature. © 1986 The American Physical Society."

ISSN: 10502947 Source Type: Journal Original language: English  
DOI: 10.1103/PhysRevA.34.5080 Document Type: Article

Feynman, R.P.; Lauritsen Laboratory, California Institute of Technology, Pasadena, CA 91125, United States  
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### Effective classical partition functions with an improved time-dependent reference potential

**Author(s):** Palmieri, B (Palmieri, Benoit); Ronis, D (Ronis, David)

**Source:** PHYSICAL REVIEW E **Volume:** 73 **Issue:** 6 **Article Number:** 061105 **DOI:** 10.1103/PhysRevE.73.061105 **Part:** Part 1 **Published:** JUN 2006

**Times Cited:** 4 (from Web of Science)

**Cited References:** 12 [view related records] Citation Map

**Abstract:** The original Feynman-Kleinert [Phys. Rev. A 34, 5080 (1986)] variational approach to Euclidean path integrals is improved by introducing a reference harmonic potential whose center is allowed to change with time. The motion of the center and leads to an equation of motion for the classical path in the reference potential  $V(x) = -x(2)/2 + \alpha x(4)/4 + 1/4$ . This modification improves the accuracy of the matrix.

**Accession Number:** WOS:000238693800014

**Document Type:** Article

**Language:** English

**KeyWords Plus:** VARIATIONAL APPROACH; STATIC CORRELATIONS; SUSPENSIONS

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**Publisher:** AMERICAN PHYSICAL SOC, ONE PHYSICS ELLIPSE, COLLEGE PK, MD 20740-3844 USA

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