

# APS (AMERICAN PHYSICAL SOCIETY) 이용 매뉴얼

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## □ 출판사 소개

- "To advance and diffuse the knowledge of physics"를 모토로 1899년 설립된 APS(American Physical Society)는 전 세계에서 두 번째로 규모가 큰 물리학회로 가장 많이 인용되고 있는 Physical Review를 비롯하여 13종 이상의 저널을 출판하고 있으며, 매년 물리학 관련 20회 이상의 학술행사를 개최하고 있습니다.
- APS는 자체 플랫폼을 통해 저널을 제공하고 있으며, 이용자의 편의성을 고려하여 최상의 서비스를 제공하고자 노력하고 있습니다. APS에는 전세계 대학, 연구소 및 기업으로부터 51,000명 이상의 물리학자가 멤버가 활동하고 있습니다.

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- 제공연도 : 1930 ~ 현재
- 제공종수 : 저널 13종
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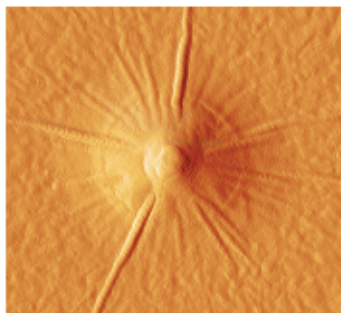
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#### Jan Michael Rost Selected as Lead Editor of *Physical Review A*

APS has appointed Dr. Jan Michael Rost, Director at the Max Planck Institute for the Physics of Complex Systems in Dresden, Germany, as the Lead Editor of *Physical Review A* (PRA). He takes over this role from Dr. Gordon Drake, who has served as PRA's Lead Editor since February 2006. Dr. Rost formerly served as an Editorial Board member for PRA from January 2004 to December 2006 and begins his new role January 1, 2019.



#### PRL ON THE COVER

#### Interface-Governed Deformation of Nanobubbles and Nanotents Formed by Two-Dimensional Materials

December 27, 2018

A spontaneously formed nanotent by a four-layer  $\text{MoS}_2$ . Selected for Editors' Suggestions.

Zhaohu Dai et al.

[Phys. Rev. Lett. 121, 266104 \(2018\)](#)

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##### New Associate Editor for *Physical Review A* - Bill Munro

January 3, 2019

We welcome Bill Munro (NTT's Basic Research Laboratories, Tokyo, Japan), who joins the editorial staff of *Physical Review A* as a remote Associate Editor.

##### PhySH Now Publicly Available

September 11, 2018

PhySH, APS's physics classification scheme, is now publicly available under a Creative

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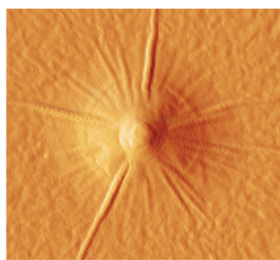
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September 11, 2018

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**PRL ON THE COVER**

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[Phys. Rev. Lett. \*\*121\*\*, 266101 \(2018\)](#)

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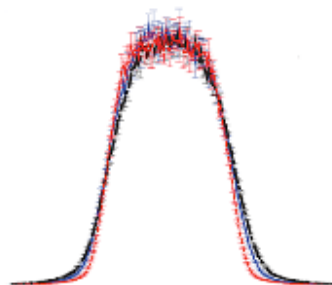
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Jan Michael Rost  
*Physical Review A*

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KALEIDOSCOPE

#### Center-line intensity of a supersonic helium beam

January 4, 2019

Adrià Salvador Palau *et al.*

*Phys. Rev. A* **98**, 063611 (2018)

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Editors' Suggestion

## Photons and polaritons in a broken-time-reversal nonplanar resonator

Ningyuan Jia, Nathan Schine, Alexandros Georgakopoulos, Albert Ryou, Ariel Sommer, and Jonathan Simon  
Phys. Rev. A **97**, 013802 – Published 3 January 2018

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From generation of backscatter-free transmission lines, to optical isolators, to chiral Hamiltonian dynamics, breaking time-reversal symmetry is a key tool for development of next-generation photonic devices and materials. Of particular importance is the development of time-reversal-broken devices in the low-loss regime, where they can be harnessed for quantum materials and information processors. In this work, we experimentally demonstrate the isolation of a single, time-reversal-broken running-wave mode of a moderate-finesse optical resonator. Nonplanarity of the optical path produces a round-trip geometrical (Pancharatnam) polarization rotation, breaking the inversion symmetry of the photonic modes. The residual time-reversal symmetry between forward- $\sigma^+$ -backward- $\sigma^-$  modes is broken through an atomic Faraday rotation induced by an optically pumped ensemble of  $^{87}\text{Rb}$  atoms residing

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