2016 諾貝爾物理獎得主：美學者戴維·索利斯（David J. Thouless）等 3 人分享

2016 年諾貝爾物理學獎揭曉，由美國西雅圖華盛頓大學的戴維·索利斯（David J. Thouless）、美國新澤西州普林斯頓大學的鄧肯·霍爾丹（Duncan M. Haldane）和美國羅德島布朗大學的邁克爾·科斯特利茨（J. Michael Kosterlitz）等 3 名英裔美籍學者分享。他們在關於物質拓樸相變與拓樸相位的理論發現有重大貢獻，諾貝爾評審委員會提到他們獲獎的理由:3 位科學家發現了固體物質完全意想不到的行為，並想出數學架構來解釋這些特質，而這些發現為設計具有各式創新特質的新材料鋪了路。

評選委員會執行主席說：「今年的諾貝爾物理獎得主打開了未知世界的一扇門窗，讓我們了解物質能以各種奇異的方式存在，他們使用高超的數學研究出物質不尋常的面相或狀態，這些物質包括超導體、超流體、電磁薄膜等。由於他們開創性的研究，讓世界可對全新的、特異的物質展開全面探索。」主席又強調：「這讓未來材料科學與電子學的應用充滿亮麗前景!」

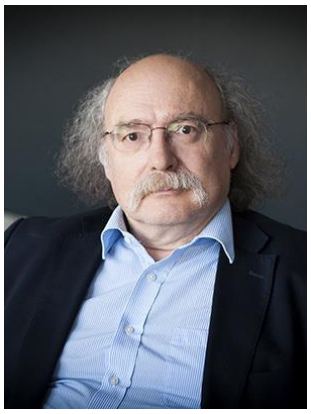
2016 Physics Laureates Revealed the Secrets of Exotic Matter

The Royal Swedish Academy of Sciences has decided to award the Nobel Prize in Physics 2016 with one half to David J. Thouless (University of Washington, Seattle, WA, USA) and the other half to F. Duncan M. Haldane (Princeton University, NJ, USA) and J. Michael Kosterlitz (Brown University, Providence, RI, USA).

The three Laureates make the significant contribution on the “theoretical discoveries of topological phase transitions and topological phases of matter”

As mentioned by the Royal Swedish Academy of Sciences, this year’s Laureates opened the door on an unknown world where matter can assume strange states. They have used advanced mathematical methods to study unusual phases, or states, of matter, such as superconductors, superfluids or thin magnetic films. Thanks to their pioneering work, the hunt is now on for new and exotic phases of matter. Many people are hopeful of future applications in both materials science and electronics.

得獎者照片:

		
David J. Thouless, born 1934 in Bearsden, UK. Ph.D. 1958 from Cornell University, Ithaca, NY, USA. Emeritus Professor at the University of Washington, Seattle, WA, USA. https://sharepoint.washington.edu/phys/people/Pages/view-person.aspx?pid=85	F. Duncan M. Haldane, born 1951 in London, UK. Ph.D. 1978 from Cambridge University, UK. Eugene Higgins Professor of Physics at Princeton University, NJ, USA. https://www.princeton.edu/physics/people/display_person.xml?netid=haldane&display=faculty	J. Michael Kosterlitz, born 1942 in Aberdeen, UK. Ph.D. 1969 from Oxford University, UK. Harrison E. Farnsworth Professor of Physics at Brown University, Providence, RI, USA. https://vivo.brown.edu/display/jkosterl

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