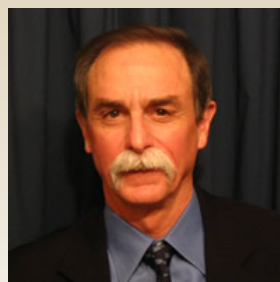


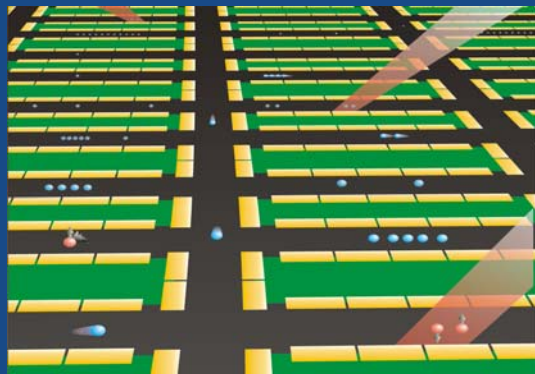


THE
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Awards

QUANTUM COMPUTING



The 2010 Benjamin Franklin Medal in Physics will be awarded to J. Ignacio Cirac, Peter Zoller, and David J. Wineland for their theoretical proposal and experimental realization of the first device that performs elementary computer-logic operations using the quantum properties of individual atoms. The Symposium will discuss these achievements as well as more recent developments in the field of quantum computing and quantum information. Emphasis will be on trapped ions and neutral atoms computing, but other approaches will be reviewed as well.



Symposium sponsors:



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Symposium honoring

J. Ignacio Cirac, Peter Zoller, and David J. Wineland:
2010 Franklin Medal Laureates in Physics

Thursday, April 29, 2010
8:30-12:45

David Rittenhouse Laboratory, room A8
University of Pennsylvania
209 S 33 Street, Philadelphia

- Speakers:**
- David P. DiVincenzo**, IBM, Yorktown Heights
"Some history of quantum computing"
 - J. Ignacio Cirac**, Max Planck, Garching
"Ion trap quantum computing: theory"
 - David J. Wineland**, NIST Boulder
"Quantum processing and quantum metrology with trapped ions"
 - Chris Monroe**, U. Maryland
"Wiring atoms for quantum simulations and quantum communication"
 - Peter Zoller**, U. Innsbruck
"Quantum information with neutral atoms: theory"
 - David Weiss**, Penn State
"Quantum computing with neutral atoms: experiment"

Free and open to the public

Information: Krzysztof Szalewicz, University of Delaware
szalewic@udel.edu
<http://www.physics.udel.edu/~szalewic/Flsymp10>

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