

An unknown quantum state $|\phi\rangle$ can be disassembled into,

then later reconstructed from, purely classical information and purely nonclassical EPR correlations. To do so the sender, 'Alice,' and the receiver, 'Bob,' must prearrange the sharing of an

the classical result of this measurement. Knowing this, Bob can reconstruct the state of his EPR particle into an exact replica of the unknown state $|\phi\rangle$ which Alice destroyed.

From EQIS'01 to AQIS'10

'Practical' - what does it mean? -

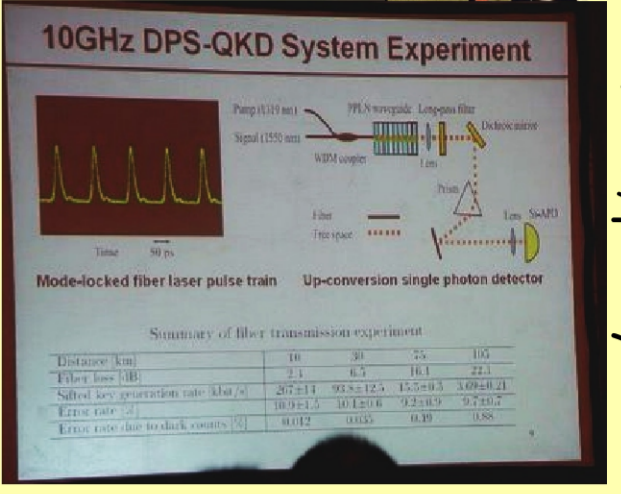
- Theorists:
- Experimental Physicists:
- Consumers:

Useful, Reliable, Affordable, Friendly, ...

Quantum physics is child's play comparing with understanding of child's play.

EQIS conference was founded in 2001, within the ERATO Imai's quantum project, in order to support development of QIPC in general and in Asia countries, especially in Japan, in particular. The goal was to create one of the leading conferences in the field that takes a broad view of the field, combines physics and informatics approaches and much emphasizes a strong selection of submitted papers by prestigious international program committees.

It is well known that it is very hard to understand quantum physics. However, it is less known that understanding of quantum physics is child's play comparing with understanding of child's play.



You have nothing to do but mention the quantum theory, and people will take your voice for the voice of science, and believe anything. *Bernard Shaw (1938)*

ERATO Workshop on Quantum Information Science 2001
September 6-8, 2001, Tokyo, Japan

ERATO Workshop on Quantum Information Science 2002
September 5-8, 2002, Tokyo, Japan

ERATO Workshop on Quantum Information Science 2003 (EQIS'03)
September 4-6, 2003, Nijima-kaikan, Kyoto, Japan

ERATO Workshop on Quantum Information Science 2004
September 1-5, 2004, Hitotsubashi Memorial Hall, Tokyo, Japan

ERATO Workshop on Quantum Information Science 2005
August 26-30, 2005, National Museum of Emerging Science and Innovation, JST, Tokyo, Japan

ERATO Workshop on Quantum Information Science 2006
September 14, 2006, Beijing Friendship Hotel, Beijing, China

ERATO Workshop on Quantum Information Science 2007
September 3-6, 2007, Shiran Kaikan, Kyoto University

ERATO Workshop on Quantum Information Science 2008
August 29-31, 2008, KIAJ, Seoul, Korea

ERATO Workshop on Quantum Information Science 2009
August 25-29, 2009, Nanjing University, Nanjing, China

ERATO Workshop on Quantum Information Science 2010
August 27-31, 2010, The University of Tokyo, Japan

ERATO QUANTUM INFORMATION SCIENCE 2002

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science and quantum physics. EQIS'02 will be the second workshop in a series and is to concentrate primarily on theoretical aspects of quantum information science.

Program Committee:
C. H. Bennett (IBM, Yorktown Heights), J. Gruska (Masaryk Univ., Brno), M. Ozawa (Tokyo Univ. of Science), P. W. Shor (MIT, Cambridge)

Invited Speakers:
C. H. Bennett (IBM, Yorktown Heights), G. C. Guo (USTC, Hefei), O. Hirota (Nagasaki Univ., Nagasaki), H. Furuta (RIKEN, Wako), M. Sasaki (RIKEN, Wako), R. F. Werner (TU Braunschweig)

Keynote Speaker:
P. W. Shor (MIT, Cambridge)

ERATO conference on Quantum Information Science 2004

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'04 will be the fourth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Charles H. Bennett (IBM Research), Masahito Hayashi (ERATO, Kyoto Univ.), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO conference on Quantum Information Science 2005

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'05 will be the fifth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO conference on Quantum Information Science 2006

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'06 will be the sixth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO Workshop on Quantum Information Science 2007

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science and quantum physics. EQIS'07 will be the seventh workshop in a series and is to concentrate primarily on theoretical aspects of quantum information science.

Program Committee:
C. H. Bennett (IBM, Yorktown Heights), G. C. Guo (USTC, Hefei), O. Hirota (Nagasaki Univ., Nagasaki), H. Furuta (RIKEN, Wako), M. Sasaki (RIKEN, Wako), R. F. Werner (TU Braunschweig)

Invited Speakers:
C. H. Bennett (IBM, Yorktown Heights), G. C. Guo (USTC, Hefei), O. Hirota (Nagasaki Univ., Nagasaki), H. Furuta (RIKEN, Wako), M. Sasaki (RIKEN, Wako), R. F. Werner (TU Braunschweig)

Keynote Speaker:
P. W. Shor (MIT, Cambridge)

ERATO conference on Quantum Information Science 2008

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'08 will be the eighth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Charles H. Bennett (IBM Research), Masahito Hayashi (ERATO, Kyoto Univ.), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO conference on Quantum Information Science 2009

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'09 will be the ninth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO conference on Quantum Information Science 2010

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'10 will be the tenth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO conference on Quantum Information Science 2010

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'10 will be the tenth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO Workshop on Quantum Information Science 2001

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science and quantum physics. EQIS'01 will be the first workshop in a series and is to concentrate primarily on theoretical aspects of quantum information science.

Program Committee:
C. H. Bennett (IBM, Yorktown Heights), J. Gruska (Masaryk Univ., Brno), M. Ozawa (Tokyo Univ. of Science), P. W. Shor (MIT, Cambridge)

Invited Speakers:
C. H. Bennett (IBM, Yorktown Heights), G. C. Guo (USTC, Hefei), O. Hirota (Nagasaki Univ., Nagasaki), H. Furuta (RIKEN, Wako), M. Sasaki (RIKEN, Wako), R. F. Werner (TU Braunschweig)

Keynote Speaker:
P. W. Shor (MIT, Cambridge)

ERATO Workshop on Quantum Information Science 2002

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science and quantum physics. EQIS'02 will be the second workshop in a series and is to concentrate primarily on theoretical aspects of quantum information science.

Program Committee:
C. H. Bennett (IBM, Yorktown Heights), J. Gruska (Masaryk Univ., Brno), M. Ozawa (Tokyo Univ. of Science), P. W. Shor (MIT, Cambridge)

Invited Speakers:
C. H. Bennett (IBM, Yorktown Heights), G. C. Guo (USTC, Hefei), O. Hirota (Nagasaki Univ., Nagasaki), H. Furuta (RIKEN, Wako), M. Sasaki (RIKEN, Wako), R. F. Werner (TU Braunschweig)

Keynote Speaker:
P. W. Shor (MIT, Cambridge)

ERATO Workshop on Quantum Information Science 2003 (EQIS'03)

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science and quantum physics. EQIS'03 will be the third conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Charles H. Bennett (IBM Research), Masahito Hayashi (ERATO, Kyoto Univ.), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO Workshop on Quantum Information Science 2004

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'04 will be the fourth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Charles H. Bennett (IBM Research), Masahito Hayashi (ERATO, Kyoto Univ.), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO Workshop on Quantum Information Science 2005

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'05 will be the fifth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

Year	Invited	Contributed	Posters	Participants
EQIS'01	12	25	39	155
EQIS'02	11	22	46	165
EQIS'03	11	29	60	203-57
EQIS'04	11	36	59	200
EQIS'05	10	40	52	180
EQIS'06	7	46	58	200
EQIS'07	7	37	43	160
EQIS'08	8	41	48	216
EQIS'09	8	34	76	194

ERATO Workshop on Quantum Information Science 2006

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'06 will be the sixth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO Workshop on Quantum Information Science 2007

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science and quantum physics. EQIS'07 will be the seventh workshop in a series and is to concentrate primarily on theoretical aspects of quantum information science.

Program Committee:
C. H. Bennett (IBM, Yorktown Heights), G. C. Guo (USTC, Hefei), O. Hirota (Nagasaki Univ., Nagasaki), H. Furuta (RIKEN, Wako), M. Sasaki (RIKEN, Wako), R. F. Werner (TU Braunschweig)

Invited Speakers:
C. H. Bennett (IBM, Yorktown Heights), G. C. Guo (USTC, Hefei), O. Hirota (Nagasaki Univ., Nagasaki), H. Furuta (RIKEN, Wako), M. Sasaki (RIKEN, Wako), R. F. Werner (TU Braunschweig)

Keynote Speaker:
P. W. Shor (MIT, Cambridge)

ERATO Workshop on Quantum Information Science 2008

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'08 will be the eighth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Charles H. Bennett (IBM Research), Masahito Hayashi (ERATO, Kyoto Univ.), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

ERATO Workshop on Quantum Information Science 2009

CALL FOR PAPERS

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics and nanotechnology. EQIS'09 will be the ninth conference in a series and is to concentrate on theoretical and experimental aspects of quantum information science.

Program Committee:
Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary), Charles H. Bennett (IBM), Richard Cleve (University of Calgary)

EPR-correlated pair of particles. Alice makes a joint measurement on her EPR particle and the unknown quantum system, and sends Bob