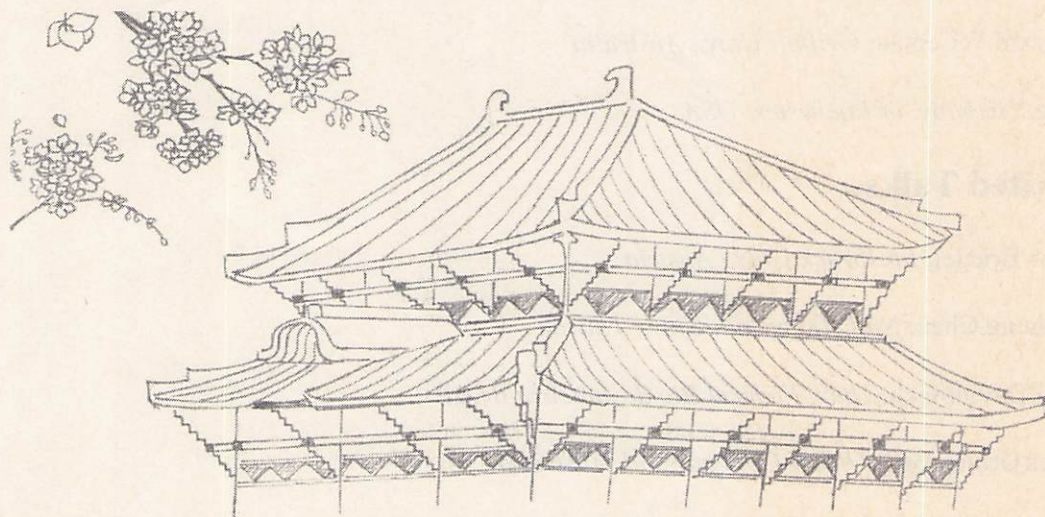


***OSA Workshop on Entanglement  
and Quantum Decoherence***



**Nara, Japan 28-30 January, 2008**

## **EQD Program Committee**

Joseph H. Eberly, *Univ. of Rochester, USA*  
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Krzysztof Wodkiewicz, *Univ. Warszawski, Poland*  
Ting Yu, *Univ. of Rochester, USA, Chair*

## **Tutorials:**

Andreas Buchleitner, *Albert-Ludwigs-Universitaet Freiburg, Germany*  
Franco Nori, *RIKEN, Japan, and Univ. of Michigan, USA*  
Howard Wiseman, *Griffith Univ., Australia*  
Ting Yu, *Univ. of Rochester, USA*

## **Invited Talks**

Hans Briegel, *Innsbruck Univ., Austria*  
Pochung Chen, *Natl. Tsing-hua Univ., Taiwan*  
Luiz Davidovich, *Univ. Federal Rio de Janeiro, Brazil*  
Peter Drummond, *Univ. of Queensland, Australia*  
Hsi-Sheng Goan, *Natl. Taiwan Univ., Taiwan*  
Hong Guo, *Peking Univ., China*  
Bei-Lok Hu, *Univ. of Maryland, USA*  
Nobuyuki Imoto, *Osaka Univ., Japan*  
Masato Koashi, *Osaka Univ., Japan*  
Gershon Kurizki, *Weizmann Inst. of Science, Israel*

C. K. Law, *The Chinese Univ. of Hong Kong, Hong Kong*

You-Quan Li, *Zhejiang Univ., China*

Yu-Xi Liu, *RIKEN, Japan*

Koji Maruyama, *RIKEN, Japan*

Sahin K. Ozdemir, *Osaka Univ., Japan*

Jian-Wei Pan, *Univ. Heidelberg, Germany*

Margaret D Reid, *Univ. of Queensland, Australia*

YiJing Yan, *Hong Kong Univ. of Science and Technology, Hong Kong*

Li You, *Georgia Tech., USA*

Jian-Qiang You, *Fudan Univ., China and RIKEN, Japan*

Weiping Zhang, *East China Normal Univ., China*

Suhail Zubairy, *Texas A&M Univ., USA*

Karol Zyczkowski, *Jagiellonian Univ., Poland*

### **Invited Research Updates:**

M. Al-Amri, *KACST and King Khalid Univ., Saudi Arabia*

Vincent Boyer, *NIST and Univ. Maryland, USA*

Chung-Hsien Chou, *Natl. Cheng Kung Univ., Taiwan*

Z. Fieck, *Univ. of Queensland, Australia*

Ying Gu, *Peking Univ., China*

J. R. Johansson, *RIKEN, Japan*

Jin Woo Jun, *Inje Univ., Korea*

Shi-Yuin Lin, *Natl. Center for Theoretical Science, Taiwan*

Kazuya Yuasa, *Waseda Univ., Japan*

## EQD Program 2008

Sunday, January 27, 2008		
12:00 pm-6:00 pm	Registration	Entrance Foyer
Monday, January 28, 2008		
8:00 am - 6:00 pm	Registration	Entrance Foyer
8:00 am - 8:10 am	<b>Opening remarks</b>	Conference Room 1 (CRM 1)
<b>8:10 am-10:00 am</b> <b>Session: Entanglement in open quantum systems</b> Chair: <b>M. Reid</b>		
8:10 am -9:00 am	Tutorial: <b>H. Wiseman</b> (Griffith, Australia) Entanglement in open quantum systems: decoherence, monitoring, control, and Schroedinger's "steering"	CRM 1
9:00 am- 9:30 am	<b>Hans Briegel</b> (Innsbruck, Austria) Entanglement in quantum many-body systems far away from thermodynamic equilibrium	CRM 1
9:30 am- 10:00 am	<b>B.L. Hu</b> (Maryland, USA) Quantum entanglement under non-Markovian dynamics of two qubits interacting with a common electromagnetic field	CRM 1
10:00 am -11:00 am	<b>Coffee Break</b>	Reception Hall
<b>11:00 am-12:30 pm</b> <b>Session: Entanglement decoherence</b> Chair: <b>B. L. Hu</b>		
11:00 am -11:30 am	<b>Luiz Davidovich</b> (Rio de Janeiro, Brazil) Entanglement and decoherence	CRM 1
11: 30 am-12:00 am	<b>Hsi-Sheng Goan</b> (Natl. Taiwan Univ) Non-Markovian reduced dynamics and entanglement evolution of central spin models	CRM 1
12:00 am -12:30 am	<b>Sahin Kaya Ozdemir</b> (Osaka, Japan) Ancilla assisted decoherence suppression for photonic qubits	CRM 1
12:30 am - 2:00 pm	<b>Lunch Break</b>	