



**THE CHINESE UNIVERSITY OF HONG KONG**

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Department of Information Engineering,  
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**Optical Pulse Converter and FWM in Dense Periodical Fibers**

by

**Dr. Anhui Liang**  
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**Date : 31 July, 2006 (Mon.)**  
**Time : 11:00am – 12:00noon**  
**Venue : Rm 833, Ho Sin Hang Engineering Building**  
**The Chinese University of Hong Kong**

*Abstract*

The optical pulse converter, which changes optical RZ pulse shape to square shape in front of RX, improves Q by 5.4 dB. This technique is one of three techniques which can improve Q by more than 5 dB, where other two technologies are FEC and Raman Amplifier. A simple analytical formula is derived for the FWM in dispersion managed system. FWM in dense periodical fibers are studied, and the high speed dispersion managed soliton and CRZ can transmit in the dense periodical fibers over long distance.

*Biography*

He is a Lead Verification and Test Engineer in OpVista. Before he joined in OpVista, he worked on 40 G in several different companies. He was a Senior Member of Technical Staff of Tyco Submarine Systems to work on the undersea system, after he worked in Osaka University as a JSPS postdoctoral fellow. He received his M.S. from Tsinghua University in 1988. He received his Ph.D. from the Chinese University of Hong Kong in 1997, and he received the Young Scholar Dissertation Award from CUHK. He has published more than 60 papers, and has 3 granted patents and several pending patent applications. He is a Senior Member of IEEE.

**\*\* ALL ARE WELCOME \*\***

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