

Second Winner



Project Title:

The Cancellation of Spontaneous Emission
Via Quantum Interference

Research:

Shi-Yao Zhu (Ph.D.)

Country:

China

University:

Hong Kong Baptist University

Dr. Shi-Yao Zhu, Ph.D. in Physics (Solid State), in Department of Physics, Hong Kong Baptist University, is the member of Optical Society of American Physical Society as well as the fellow of Chinese Society of Quantum Optics. His efforts in different fields of physics have won him some national awards like the third call award of Chinese National Award for Natural Sciences in 1999. More over, he has published 148 scientific papers in refereed journals sixteen of which has about 2000 citations.

The cancellation of spontaneous emission via quantum interference was first discovered in his present project in 1996, which was published in Physical Review Letters (PPL 76,338 (1996)) and has received more than 140 citations.

The dark lines induced by quantum interference in the spontaneous spectrum was first found in his present project in 1995 (see Physical Review A 52, 4793 (1995) and 710 (1995)). The citations of the two papers are more than sixty.

One of the Lasing without Inversion theories was established in 1989 in this project by Dr. Zhu and Scully (see physical Review Letters 62, 2813 (1989), which has received more than 450 citations.