

The Final Research Report

1. The Synopsis of Your Research

Name	(in English) Truong Thi Anh Dao	Nationality	Vietnam
	(in your native language) Trương Thị Anh Đào	Date of birth	May 26, 1959
Field of research	Quantum Optics	Period of research	Sep. 1, 2006 – Aug.31, 2007
Affiliation (Home institution)	(Institution) Vietnamese Academy of Science and Technology (VAST)	(Department) Institute of Physics and Electronics	(Position) Researcher
Project title	(in English) Quantum Chaos in Deformed Microcavities		
	(in your native language) Hỗn loạn lượng tử trong các hốc cộng hưởng vi mô biến dạng		
Host institution	Seoul National University	Department	School of Physics and Astronomy
Host scholar	(Name) <u>Prof.Kyung Won An</u> (signature) _____		
Synopsis of your final research results	<p style="text-align: justify;">One of the behaviours to reach studying the quantum states is to consider them at the boundary of classical mechanics whereas the applicability of classical mechanics theory.</p> <p style="text-align: justify;">We propose the principle to build a deformed microcavity for research quantum properties in chaos medium to elucidate the interplay between wave and particle natures of light.</p> <p style="text-align: justify;">We have been used the deformed microcavity as a efficiency tool to study that chaos medium.</p> <p style="text-align: justify;">We have developed a chechnique for realizing a two dimensional quadupolar microcavity with its deformation variable from 0% to 20 % continuously using a liquid jet ejected from concircular orifice. With this technique, we investigated the far field evolution depending on deformation parameter from regularity to chaos.</p>		

2. Academic Activities

Please describe chronologically the academic activities you have participated in during the past year.

Dates (mm/dd/yy)	Title or Theme (conference, lecture, etc.)	Holding institution	Place	Activity or role	
Sep.7,14, 2006	The journal club	Quantum - Field Laser Lab., SNU	Room 25-114, SNU	Participate	
Oct.12, 2006	The Seminar		Room 25-114, SNU		
Oct.20-22, 2006	The Workshop		Muju resort		
Dec. 27, 2006	The Seminar		Room 25-313B, SNU		
Dec. 28, 2006	The journal club		Room 25-114, SNU		
Dec. 27, 2006	The Seminar		Room 25-313B, SNU		
Jan.10,17,24, 2006	The Seminar		Room 25-313B, SNU		
Mar.7,14,21,28, 2007	The Seminar		Room 25-313B, SNU		
April 4, 11, 18, 25, 2007	The Seminar The Colloquium		School of Physics- SNU		Room 25-313B, SNU Room 129-104, SNU
April 11 ,2007.	The journal club		Quantum - Field Laser Lab., SNU		Room 25-114, SNU
March 12,26, 2007	The journal club				Room 25-114, SNU
Apr. 30, 2007	The Seminar				Room 25-313B, SNU
May 9,16,23,29, 2007	The Seminar				Room 25-313B, SNU
Jun. 23, 2007	The journal club				Room 25-114, SNU
Jun. 25,2007	The Seminar				Room 25-313B, SNU
July 11,18, 2007	The Seminar				Room 25-313B, SNU
Others					

3. The List of Your Recent Research

Please list chronologically any academic articles or books you have disseminated during the past year.

Title	Serial name (or Publisher)	Vol. No. (or Place)	Dates
“Observation of the far field evolution in a shape-variable microcavity”	TP-I1 The Optical Society of Korea Summer Meeting 2007	Sokcho- Gangwon do	July 18-20, 2007

4. Plans for Dissemination of Your Research Results

Plans for dissemination	(Journal name scheduled to be published in) Comm.Phys.Suppl. (Hanoi, Vietnam)	(vol.no./ date of issue) 2007- 2008
	(other plans for dissemination)	
Possible application for practical use of your research results	<ul style="list-style-type: none"> - Build up a efficient project to apply that research results in Institute of Physics, Hanoi, Vietnam. - Invite Korean Professors to my Institute in Hanoi to lecture on Quantum Theories and Experiments 	
Domicile In Korea	(address) Room 715 B, Build. 946, Seoul National University	
	(tel/ fax/ e-mail) 010 3148 2424	
Contact Information in your country	(address) P.O.Box 429 Bo Ho, 10 000 Hanoi, Vietnam	
	(tel/ fax/ e-mail) Fax. 84 4 766 9050 Tel. 84 4 97 814 97 (at home), Mobi. 84 95 3310 497	
Other comments		
<p>To the Korea Foundation for Advanced Studies:</p> <p>I, as a KFAS International Scholar Exchange Fellowship laureate, hereby submit my final research report.</p> <p>Attached:</p> <ol style="list-style-type: none"> 1) 2 printed hard copies of the final research results 2) computer file which has both files of 1) and the final research report 3) each copy of any publications during the past year 4) 1 4x5 cm. color photographs 5) 1 copy of curriculum vitae 		
Submission date (mm/dd/yy) _____08/10/07_____		Signature of laureate _____