Bruno GAYRAL

Born 20 February 1974 Habilitation 2010 (Grenoble University) PhD 2000 (Paris University) MSc 1997 CEA-Grenoble, INAC/SP2M 17 rue des Martyrs 38054 Grenoble Cedex 9, France ☎ +33 4 38 78 26 73 ⊠ bruno.gayral@cea.fr



Research positions	
Since Nov. 2003	 Researcher at CEA-Grenoble (France) Research on the optical properties of wide band-gap semiconductor heterostructures Optical spectroscopy of GaN quantum dots and nanowires III-Nitride microcavities Deputy-head of CEA-CNRS "Nanophysique et semiconducteurs" lab (~60 persons) (since 2007)
Jan. 2002 – Oct. 2003	 Research engineer with Schlumberger, Clamart (France) Responsible for european project Gladis (analysis of natural gas composition by tunable diode absorption spectroscopy) Absorption spectroscopy in the mid-infrared with III-Sb based distributed feed-back laser diodes Coordination between semiconductor academic laboratories and gas metering industrials Conception and characterization of laser diodes working at high temperatures for oil well diagnosis applications
Oct. 2000 – Dec. 2001	 Post-doctoral researcher at UC Santa Barbara (USA) – Imamoglu group Quantum optics with single quantum dots Cavity quantum electrodynamics on a single quantum dot (Purcell effect) in a microcavity Photon correlation spectroscopy on a single quantum dot
Jan. 1997 – Sept. 2000	 Graduate student at France Télécom (superviser : JM. Gérard) Spontaneous emission rate modifications for quantum dots in optical microcavities Fabrication of microcavities (micropillars, microdisks, photonic crystals) Optical characterization of the quantum dot/microcavity system Quantum optics modeling
PUBLICATIONS - PATENTS - CONFERENCES	
Publications	61 publications in peer-reviewed regular journals 4 patents
Conferences	30 oral presentations at international conferences including 16 invited presentations
Honors	Young researcher price 2000 from the French Physical Society Superlattices, Nanostructures and Nanodevices -Young Scientist award 2010