

Guy F. de Téramond Peralta
Profesor de Física
Universidad de Costa Rica

Diplome d'Etudes Approfondies in Theoretical Physics, Institut Henri Poincaré, Paris, 1968, Docteur de III Cycle in Physical Science, University of Paris VI, 1973, Docteur d'Etat es Sciences Physiques, University of Paris XI, Orsay, 1977.

Guggenheim Fellow (1986), Fulbright Research Award (1983), Leonid Medallion (1997), National Prize Clodomiro Picado Twilight (1979), Aportes Grant, Florida Ice & Farm (2006).

Associated Professor of Physics at the University of Costa Rica, UCR, 1975, and Full Professor, 1982. Has carried out his research in Nuclear and High Energy Physics at the University of Paris-Orsay, 1975-77, at the Stanford Linear Accelerator Center, 1979 and 1986-88, at the Lyman Laboratory of Physics, Harvard University, 1983, at Ecole Polytechnique in Paris, 2007 and at UCR. Visiting Professor of Physics at Stanford University, 1988. Director of the Graduate Program in Physics at UCR, 1976, 1980-82 and 1988-90. Founding Member of the National Academy of Sciences of Costa Rica. Director of the R&D Unit in Information Technologies and Networks at UCR, 1993-97, Director of the Computer Center at UCR, 1997-2000, and regional adviser to OAS Project RedHUCyT, 1994-98. President of the National Research Network CRNet, 1993-2000, and representative of Costa Rica in the Internet Top Level Domain Registry. Designed Minister of Science and Technology from July 2000 to May 2002.

Research focused on the properties of the nuclear forces, in high energy proton collisions, spin physics and the origin of chirality and group structure of grand unified theories. In a joint collaboration with scientists of the Universities of Lausanne, Munich and Zurich, evidence was found in 1980 for the charge symmetry breaking of the nuclear forces. In collaboration with [S.J. Brodsky](#) (Stanford) and I. Schmidt (U. Santa María, Chile), the properties of a new form of nuclear matter catalyzed by heavy quarks are studied in 1990 and are actually subject of experimental search at new experimental facilities. Present research focused on the strongly coupled regime of QCD using [light-front holography](#), a framework devised in 2006 with S.J. Brodsky, to map a confining gauge theory quantized on the light-front to a higher dimensional AdS space using the AdS/CFT (gauge/gravity) correspondence.

Responsible of the project for the interconnection of Costa Rica to BITNET, 1990, and the interconnection to the INTERNET, 1993. Also responsible for the creation of CRNet, a network which linked all major academic and research institutions in Costa Rica during the past decade. Has participated in the interconnection to the internet of Nicaragua, 1994, Panama, 1994, Jamaica, 1995, Honduras, 1995, and Guatemala's Mayanet, 1995, under RedHUCyT Project. Has also participated in the design and deployment of a high capacity network at UCR, and at the national level with the design and implementation of the Advanced Internet Project (RIA), to bring broadband connectivity across the country. These initiatives led to a wide scale implementation of internetworking technologies in the country and the region.