



The Abdus Salam
**International Centre
for Theoretical Physics**
50th Anniversary 1964–2014



We are pleased to announce that the

2014 ICTP Prize

is awarded to

Pablo S. Cornaglia
Centro Atómico Bariloche, Argentina

in honour of

Jacques Friedel

"The prize recognises Dr. Cornaglia's strong contributions to the understanding of the effects of the electron-electron and electron-phonon correlations in solids and nanosystems. Especially important are his studies of Kondo phenomena in molecular contacts, of the physics of strongly correlated materials, of chemically functionalized graphene, and of transport in nanostructures. On these subjects he leads rich international cooperations with theoretical and experimental groups in Latin America and in Europe. The Prize also recognises Dr. Cornaglia's concern for teaching and guiding young students, the generosity with which he shares his knowledge, and his dedication to science in his country".

Jacques Friedel

Jacques Friedel (1921–2014) has been a leading theoretical condensed matter physicist and an important intellectual force in Europe. The descendant of a family of scientists, he studied first in Paris and then in Bristol, where he earned his PhD in 1952 working with Nevill Mott. Later, he co-founded the Laboratory of Solid State Physics at the University of Paris-Sud, which under his direction attained world visibility. Enormously influential in French and European science, Friedel was at different times President of the Société Française de Physique, of the European Physical Society and of the French Académie des Sciences. His many contributions dealt with various branches of solid state physics, in particular the electronic structure of metallic alloys and of metals, the physics of dislocations, and the structure of surfaces, defects, and clusters. Several important effects in solid state physics carry his name, such as the Friedel charge oscillations near defects in metals, and the Friedel sum rule in a variety of screening problems. A committed, outstanding educator, Professor Friedel supported early Condensed Matter activities at ICTP, where he also delivered a memorable course on "Extended Defects in Materials" in the 1978 Spring College on the Physics of Modern Materials.