



Institut national de physique nucléaire et de physique des particules



Sonder les infinis : des particules au cosmos

March 21, 2023 -- IJCLab Orsay

Marcella Grasso

Scientific Director for Nuclear Physics, IN2P3 Direction Board



Conference on Quantum-Many-Body Correlations in memory of Peter Schuck (QMBC 2023)

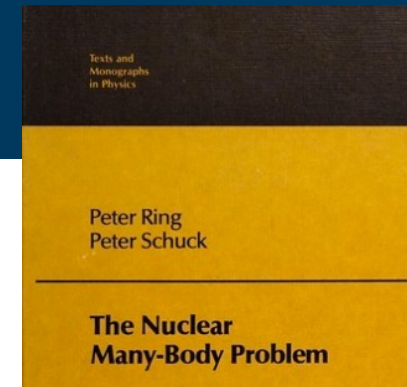
21–23 mars 2023 IJCLab, Orsay, France

Peter Schuck 1940 - 2022

Conference on Quantum-Many-Body Correlations in memory of Peter Schuck (QMBC 2023)



21–23 mars 2023 IJCLab, Orsay, France



Up to 1976 TU Munich (thesis in 1969), MIT (post-doc), TU Munich

1976 - 1982 Institut Laue-Langevin, Grenoble

1982 - 2000 LPSC, Grenoble

2000 – 2022 IPN (presently IJCLab), Orsay,
and Laboratoire de Physique et Modélisation des
Milieux Condensés (LPMMC), Grenoble
Retirement in 2010, emeritus after 2010

2018 Lise Meitner Prize for Nuclear Science, with Peter Ring



An outstanding scientist ... difficult to say it in a few words, in a few minutes!

... not only in nuclear theory but more in general in many-body physics

... with his ideas, source of inspiration for both theorists and experimentalists

... exploring several domains, pushed by his inexhaustible scientific curiosity and tenacity

... having numerous collaborators and contacts in different scientific domains

Several topics investigated by Peter during his career will be addressed today and in the next days by the speakers of this conference, many of them are his collaborators.

I would like to thank them and all of you for being here, on behalf of us, theorists of Orsay, who have spent two decades of our scientific life in the same group as Peter

Examples of topics that will be presented at this conference are

- clustering phenomena in nuclei,
- quartet condensation in nuclear and condensed-matter systems,
- equation of state and density-functional theory,
- BCS-BEC crossover in ultracold Fermi gases,
- pairing and superfluidity in nuclear systems and neutron stars,
- RPA and its extensions in nuclear physics, solid-state physics, and theoretical chemistry,
- semiclassical methods for many-body systems.

2000 – 2022, theory group in Orsay



... Peter : Lecture at the School Frontiers in Nuclear and Hadronic Physics 2016

https://www.youtube.com/watch?v=iFaS7QDDq7Y&ab_channel=FNHPSchool2016