

Mme Karyn LE HUR: Teaching and Services

1995-1998: PhD Time, Undergraduate Course to 1st-years students at University of Cergy-Pontoise, 2 small classes

1998-2000: Teaching Assistant and organization of pro-seminars on diagrammatic techniques at ETH Zürich

Co-supervision of the PhD thesis of Urs Ledermann with T. Maurice Rice; 2 articles (U. Ledermann and K. Le Hur, PRB 61, 2497, (2000); U. Ledermann, K. Le Hur, T. M. Rice, PRB 62, 16383 (2000))

2000-2002: Teaching Assistant to Ruth Durrer, Geneva, course on electrodynamics to 2nd-year students

Co-supervision of the PhD thesis of Georg Seelig with Markus Büttiker. One article: K. Le Hur and G. Seelig, 65, 165338 (2002). Georg is now associate professor at University of Washington, Seattle

2002-2006: Undergraduate course on electromagnetism to 1st year students at University of Sherbrooke

2003-2006: Advanced course on Mesoscopic Physics to Master and PhD students, introduced by myself, at Sherbrooke University

Ion Garate with whom I started to collaborate at Yale University is now giving this course

2006: Undergraduate Course to 2nd year students on statistical physics at Sherbrooke University (replacement of my colleague Andre-Marie Tremblay)

2002-2006: Supervision of undergraduate students for Research Internships, Louis Gaudreau (collaboration with M. Pioro-Ladrière and Andy Sachrajda) and Philippe Doucet Beaupré, at Sherbrooke <https://www.uottawa.ca/faculte-sciences/professeurs/louis-gaudreau>

Article: K. Le Hur, Ph. Doucet-Beaupré, Walter Hofstetter Phys. Rev. Lett. 99, 126801 (2007).

2002-2006: Participation in Qualif-Exam for PhD students of my students and colleagues' students, Sherbrooke University

2007-2008: Graduate Course on Advanced Many-Body Theory, Yale University

2007: Undergraduate Lab on Modern Physics Measurements, Yale University

2008-2011: Two Undergraduate Courses on Quantum Mechanics and Natural Phenomena, Yale University, Class I and II

2011: Graduate Course on statistical physics, Yale University (replacement of my colleague Leonid Glazman)

2008-2011: Selection of MSc Graduate Students for the condensed-matter theory team and Participation in admission committee for MSc, graduate students, Yale University

2013-2017: Petites Classes on Advanced Quantum Physics PHY430 and Statistical Physics PHY432, Ecole Polytechnique

2015-2019: Petites Classes on Introduction to Quantum Mechanics, PHY361, Ecole Polytechnique

2019-2024: Course and Petites Classes, Bachelor Class LAB151 Math In Practice and Applications in Physics, organization with my colleague Blaise Gouteraux, Ecole Polytechnique
In 2023, we had 144 students

2020-present: Co-organization of 3rd Research Internships for Engineers on Quantum Physics, PHY599 with my colleague Landry Bretheau, and PHY595 with my colleague Luca Perfetti, Ecole Polytechnique. Within this program, I also supervised the Master projects of Han Yu Sit (Singapore CPHT) and Brian Cheung Hang Chung (CPHT)

2021-present: Introduction to Topological Physics, 1 class and 2 PCs in the class PHY552A on solid-state physics, Silke Biermann and Luca Perfetti, Ecole Polytechnique

2012-present: Supervision of 4 PRL 3rd-year students, Félicien Appas, Joshua Benabou, Aymane Maaitat and Clément Roux, on specific Research, Ecole Polytechnique

June 2023: Four classes of 2 hours, Paris-Saclay Lectures Series, on Geometry in the Quantum. These lectures are accessible on my web page

2024-present: Participation in Admission Concours at Ecole Polytechnique (X) June-July, Fillière PC, Oral Tests (50 minutes question for each student on the board): 170 students in 2024.