

## **Announcement of Fall 2020 Courses**

(As of September 9, 2020)

Requests for syllabi may be  
sent to: [d moy@gc.cuny.edu](mailto:d moy@gc.cuny.edu)

Cancelled

**Mathematical Methods in Physics [Class # 59166] – PHYS 70100 [Open to all levels]**  
Graduate Center Campus M, W 11:15 am – 1:00 pm ONLINE 4.000 Credits Sarang Gopalakrishnan

**Analytical Dynamics [Class # 59167] – PHYS 71100 [Open to all levels]**  
Graduate Center Campus M, W 9:00 am – 10:45 am ONLINE 4.000 Credits Tobias Schäfer

**Photonics – Selected Topics [Class # 59168] – PHYS 85200 [Open to all levels]**  
Graduate Center Campus M, W 9:00 am – 10:45 am ONLINE 4.000 Credits Matthew Sfeir

**Electromagnetic Theory II [Class # 59170] – PHYS 71600 [Open to all levels]**  
Graduate Center Campus Tu, Th 9:00 am – 11:00 am ONLINE 4.000 Credits Timothy Boyer

**Quantum Mechanics I [Class # 59169] – PHYS 72500 [Open to all levels]**  
Graduate Center Campus M, W 2:10 pm – 3:55 pm ONLINE 4.000 Credits Giovanni Ossola

**Particle Physics [Class # 59171] – PHYS 73600 [Open to all levels]**  
Graduate Center Campus M, W, 2:15 pm – 4:00 pm ONLINE 4.000 Credits Stefan Bathe

**Solid State Physics [Class # 59172] – PHYS 74500 [Open to all levels]**  
Graduate Center Campus F 12:45 pm – 4:00 pm ONLINE 4.000 Credits Karl Sandeman

**Quantum Theory of Fields I [Class # 59173] – PHYS 82500 [Open to 2<sup>nd</sup> year or higher]**  
Graduate Center Campus Th 11:30 am – 2:30 pm ONLINE 4.000 Credits Daniel Kabat

**Quantum Information [Class # 59175] - PHYS 83100 [Open to 2nd year or higher]**  
Graduate Center Campus M, W 12:15 pm – 2:00 pm ONLINE 4.000 Credits Mark Hillery  
[Open to students in other programs, i.e. computer science or mathematics, with a knowledge of quantum mechanics]

**Quantum Theory of Solids II [Class # 59174] – PHYS 84600 [Open to 2nd year or higher]**  
Graduate Center Campus Tu 11:15 am – 2:15 pm ONLINE 4.000 Credits So Takei

**Machine Learning for Physics and Astronomy – Selected Topics [Class # 59176] – PHYS 85200 [Open to 2nd year or higher]**  
Graduate Center Campus M, W 10:00 am – 12:00 pm ONLINE 4.000 Credits Viviana Acquaviva

**Survey of Research Opportunities at CUNY [Class # 59177] – PHYS 85400 [Open to 1<sup>st</sup>-year physics students only]**  
Graduate Center Campus F 9:30 am – 12:00 pm ONLINE 3.000 Credits Igor Kuskovsky  
[1st-year students are required to take this course; Grading is Pass/Fail]

**Research Rotation I [Class # 59178] – PHYS 85500 [Open to 1<sup>st</sup>-year physics students only]**  
Graduate Center Campus [rotation faculty and ONLINE schedules to be announced] 1.000 Credit  
Alexios Polychronakos  
[1st-year students are required to take this course; Grading is Pass/Fail]

**Independent Study – PHYS 89900 [Open to Level I and II Physics students only]**  
Graduate Center Campus 1.000 – 4.000 Credits  
[Students are limited to 1 Independent Study course per semester, requires permission of instructor, and open to students with less than 60 total credits]

**Dissertation Supervision – PHYS 90000 [Open to Level III Physics students only]**