

PHY 781 - Advanced Quantum Field Theory

(2020-21-II Semester)

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Aim: This will be an advanced course on topics in Quantum Field Theory (QFT) aimed at PhD students who have previously attended the course PHY681A (QFT-1).

Pre-requisite: Quantum Field Theory-I (PHY681)

Contents of the course: The following topics will be covered in the course:

1. *Path Integral and gauge theory quantisation*
2. *Renormalisation and Renormalisation Group Evolutions*
3. *Anomaly and other advanced topics in QFT (if time permits)*