

COURSE DETAIL

QUANTUM FIELD THEORY

Country

Iceland

Host Institution

University of Iceland

Program(s)

University of Iceland

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

128

UCEAP Course Suffix**UCEAP Official Title**

QUANTUM FIELD THEORY

UCEAP Transcript Title

QUANTUM FIELD THRY

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

The course introduces perturbative quantum field theory and some of its applications in modern physics. Main topics include relativistic quantum mechanics, bosonic and fermionic fields, interactions in perturbation theory, Feynman diagram methods, scattering processes and particle decay, and elementary processes in quantum electrodynamics (QED).

Language(s) of Instruction

English

Host Institution Course Number

EDL208M

Host Institution Course Title

QUANTUM FIELD THEORY

Host Institution Campus

Host Institution Faculty

Engineering and Natural Sciences

Host Institution Degree

Host Institution Department

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