



istanbul matematiksel bilimler merkezi  
istanbul center for mathematical sciences

BOĞAZIÇI UNIVERSITY QFT LECTURE MEETINGS

# SCALAR QUANTUM FIELD THEORY III

Tonguç Rador

Boğaziçi University

## Topics

The quantum effective action as the generator of 1PI graphs. Schwinger-Dyson equations and relations between different Green's functions. Equations for the mean field variable: Powers of Planck's constant counts the number of loops in a diagram.

## General References

Weinberg S., The Quantum Theory of Fields, Volume 1.

Brown L.S., Quantum Field Theory.

**Date :** Friday, December 21, 2012

**Time:** 14:00-17:00

**Place:** IMBM Seminar Room, Boğaziçi University South Campus