



istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

BOĞAZIÇI UNIVERSITY QFT LECTURE MEETINGS

INTRODUCTION TO THE POINCARÉ GROUP 2

Tonguç Rador

Boğaziçi University

Topics

The Lorentz group and its finite dimensional representations. The generators of translations and the Poincaré group. The relation between unitary representations and the compactness of a group. The İnönü-Wigner contraction and the relation between the Poincaré and Galilean algebras.

General References

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

Brown L.S., Quantum Field Theory.

Gürsey, F., Introduction to group theory, in *Relativity, Groups and Topology*, edited by DeWitt C. and DeWitt B.

Date : Friday, October 5, 2012

Time: 14:00

Place: IMBM Seminar Room, Boğaziçi University South Campus