

8.324 Problem Set 8

References Peskin and Schroeder, chapter 12, Weinberg, chapter 18.

Problem 1 Beta function in the Gross-Neveu Model Peskin and Schroeder, problem 12.2.

Problem 2 Asymptotic symmetry Peskin and Schroeder, problem 12.3.

Problem 3 Asymptotic behavior using Beta function Weinberg, problem 18.2.

Problem 4 Scheme dependence of Beta function Weinberg, problem 18.3.

Problem 5 Effective charge in CERN Weinberg, problem 18.4.