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References Peskin and Schroeder, chapter 11, Weinberg, chapter 12.

Problem 1 Spin-wave theory Peskin and Schroeder, problem 11.1.

Problem 2 N=2 Linear sigma model Peskin and Schroeder, problem 11.2.

Problem 3 The Gross-Neveu model Peskin and Schroeder, problem 11.3.

Problem 4 non-Renormalizable terms Weinberg, problem 12.4.