

Physics 7502: Homework Set No. 4

**Due date: Tuesday, Feb. 9, 2016, 5:00pm
in PRB M2039 (Bowen Shi's office)**

Total point value of set: 100 points

Problem 1 (5 pts.): Exercise 13.1.4 (Shankar, p. 357)

Problem 2 (10 pts.): Exercise 13.1.5 (Shankar, p. 359)

Problem 3 (5 pts.): Exercise 13.3.1 (Shankar, p. 366)

Problem 4 (5 pts.): Exercise 13.3.2 (Shankar, p. 366)

Problem 5 (10 pts.): Exercise 13.4.1 (Shankar, p. 371)

Problem 6 (10 pts.): Exercise 13.4.2 (Shankar, p. 371)

Problem 7 (5 pts.): Exercise 13.4.3 (Shankar, p. 371)

Problem 8 (5 pts.): Exercise 14.3.3 (Shankar, p. 384)

Problem 9 (5 pts.): Exercise 14.3.5 (Shankar, p. 385)

Problem 10 (15 pts.): Exercise 14.3.7 (Shankar, p. 385)

Problem 11 (5 pts.): Exercise 14.3.8 (Shankar, p. 385)

Problem 12 (20 pts.): Exercise 14.4.3 (Shankar, p. 396)