

Physics 7502: Homework Set No. 11

**Due date: Tuesday, April 19, 2016, 5:00pm
in PRB M2039 (Bowen Shi's office)**

Total point value of set: 100 points

Problem 1 (5 pts.): Exercise 19.5.1 (Shankar, p. 546)

Problem 2 (5 pts.): Exercise 19.5.2 (Shankar, p. 553)

Problem 3 (10 pts.): Exercise 19.5.3 (Shankar, p. 554)

Problem 4 (25 pts.): Exercise 19.5.4 (Shankar, p. 554)

Problem 5 (20 pts.): Exercise 19.5.5 (Shankar, p. 554)

Problem 6 (20 pts.): Exercise 19.5.6 (Shankar, p. 555)

Problem 7 (15 pts.): Exercise 19.6.1 (Shankar, p. 559)