University of California at Santa Barbara
Physics Department
Physics 225A Homework 6
due 15 November 2002

- **Problem 1**
  Halzen and Martin 5.6

- **Problem 2**
  Halzen and Martin 6.1

- **Problem 3**
  Halzen and Martin 6.2

- **Problem 4**
  In class we calculated the $e^+e^- \to \mu^+\mu^-$ cross-section starting from $e^-\mu^- \to e^-\mu^-$ and applying crossing. Calculate the same cross-section using antifermion spinors.