

*HW assignment 5.* Due Thu April 14 on the lecture

Find the total cross section of  $e^+e^- \rightarrow \mu^+\mu^-$  annihilation (averaged over the polarizations of incoming electron and positron) at high energies (assume  $s \gg m^2, \mu^2$ ). From QED viewpoint the  $\mu$ -meson is just a massive electron with mass  $\mu$ .