Homework 10

1. (10 points) Consider the reactions or decay channels that will allow to

check the existence of weak - neutral currents and estimate their strength relative to the weak - charged currents. (use Particle Data Group (PDG)).

- 2. (10 points) Using PDG suggest decay channels that will allow to estimate the Cabibo angle
- 3. (10 points) From PDG give the up to date magnitudes of the elements of the CKM matrix.
- 4. (10 points optional) Give the chain reactions of the decay of top quark to the lowest possible quark flavor state. Identify the CKM matrix elements that enter into the decay probability.