Radiation Detector 2018/19 (SPA6309), Homework 1

Name:
ID:

Problem 1 (10 points)

Draw Feynman diagrams of following processes. More than one diagram is possible for some processes, in this case draw the most probably one.

1. $\Delta^{++} \rightarrow p\pi^+$
2. $\pi^\circ \rightarrow \gamma\gamma$
3. $\pi^+ \rightarrow \mu^+ \nu_\mu$
4. $\gamma + p \rightarrow \pi^\circ + p$
5. $\nu_\mu + n \rightarrow \mu^- + p$