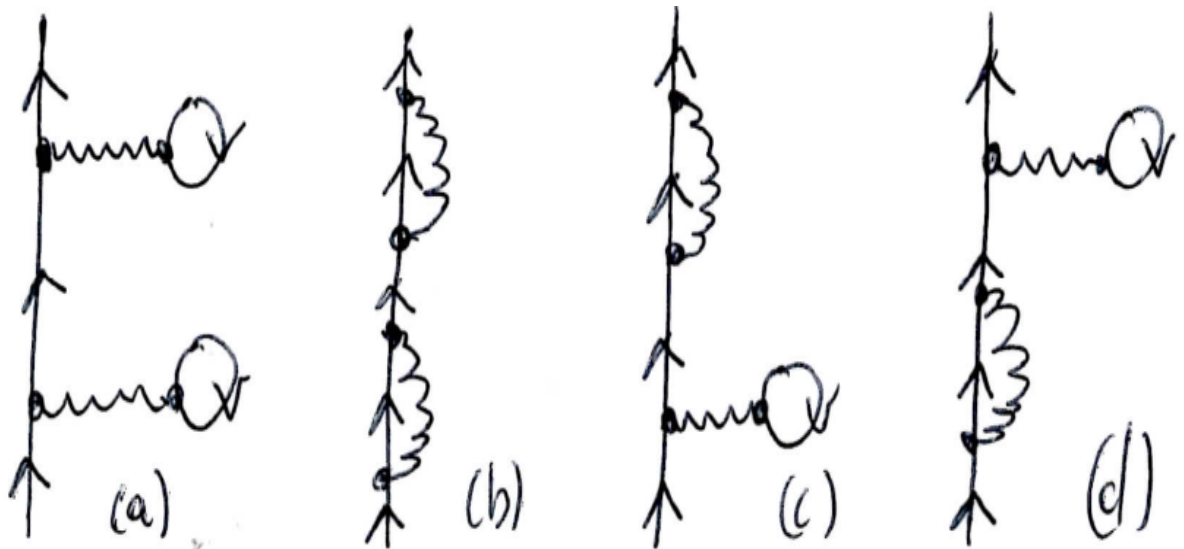


Homework 3
second-cycle degree in Physics (5 May 2020)

Second-order Feynman diagrams for the Green's function :

- (a) write the *analytic* expressions associated with diagrams (a), (b), and (c) in *coordinate* space;
- (b) show that (c) and (d) are **distinct** diagrams;
- (c) write the *analytic* expressions associated with diagram (c) in *momentum* space.



deadline : 15 May 2020

N.B. deliver the **solution** by sending (psil@pd.infn.it) a **file** denoted as **SURNAME-Name_3.pdf** (PDF format only !), ex. : SMITH-John_3.pdf .