

• Exercises : Series 8 •

- 1) Compute the $T_A^3 - \gamma - \gamma$ anomaly, computed during the lecture for two massless flavors of quarks, in the case of three flavors. Explain why the result stays the same.
- 2) Compute the $\Gamma(\pi^0 \rightarrow \gamma\gamma)$ decay width due to the anomalous term written on the lecture, for arbitrary N_c . Use the result, plus the experimental value, to measure the number of colors.