

# LAB 01 - RADIATION

## 1 Lab format

### 1) THEORY

Equations that are related to this Lab, including explanations and background.

### 2) PROCEDURE

Maximum 2 paragraphs.

### 3) EXPERIMENTAL DATA

*Section 5 in Lab manual: Statistics experiment*

*Section 7.1 in Lab manual: Experiment beta ray attenuation*

Measure background radiation.

Measure radiation at  $x = 0$ .

Measure radiation when using Al plate of thickness: G, I, K, M.

*Section 9 in Lab manual: Experiment gamma ray attenuation*

Measure radiation at  $x = 0$ .

Measure radiation when using Pb plate of thickness: Q, R, S, T.

### 4) DATA ANALYSIS + SOURCES OF ERROR.

Answer questions in Lab manual section 5 .

Answer questions in Lab manual section 7.2 + Graph (no error bars).

Conduct similar data analysis for section 9 + Graph (no error bars).

Answer questions 1-2 in section 11.

### 5) CONCLUSION

Did you reach the objective of the lab?

(short discussion of few lines)