

## Summary :

### I Different model

#### 1.1 Explanation of each model

- SIR
- SEIRD
- SEIRDV
- SEIR

#### 1.2 Different method to solve them

- Euler
- Rk2
- Rk4

#### 1.3 Find the best model for our study

- Compare the different method

### II Compare disease

#### 2.1 Simple case Beta = constant

- Find data online for different disease

#### 2.2 Different B depending on time for different disease

- Gaussian pulse
- Periodical
- Different Beta for different time on a same disease for different time

#### 2.3 Solve with the best method

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#### 2.4 Discuss about Beta effect on these different disease

- Study the disease with that Beta and try to find the best way to contain it