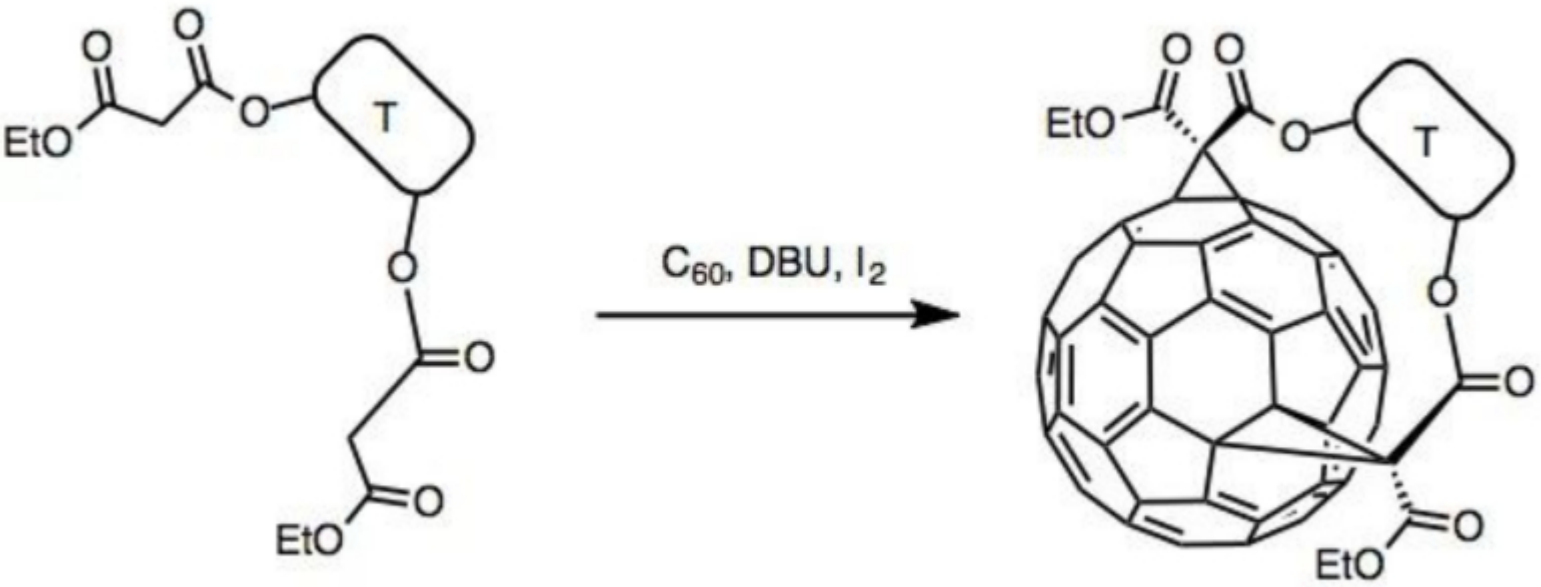
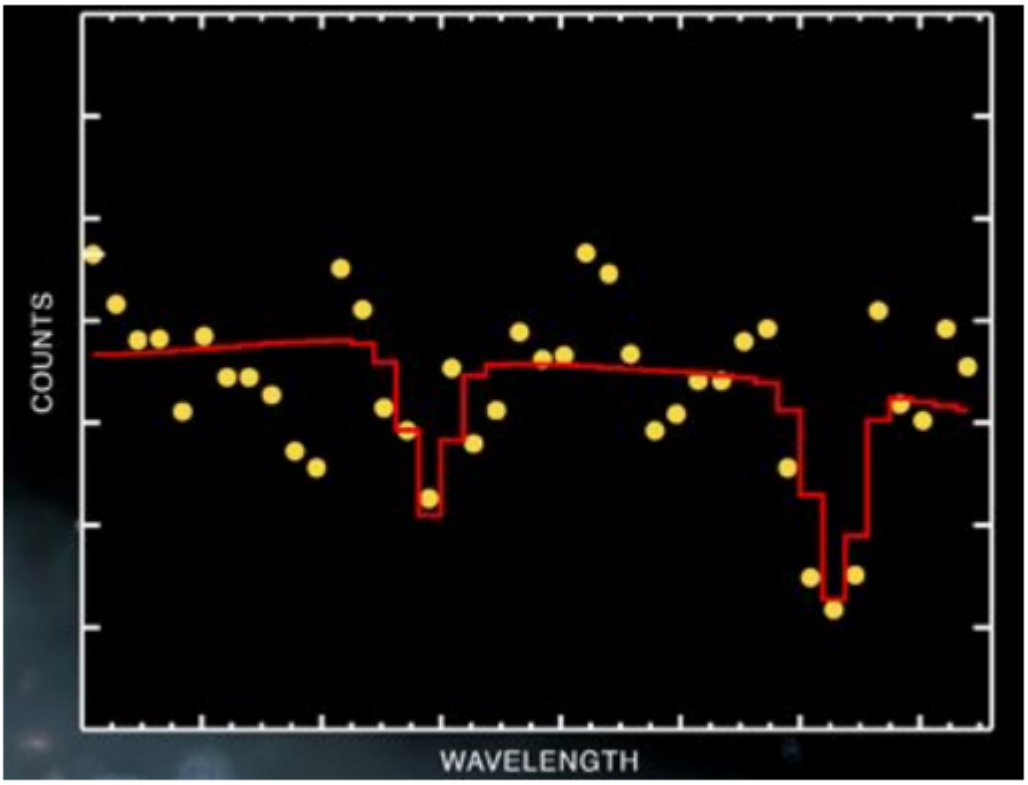
LOST DE8

February, 2021

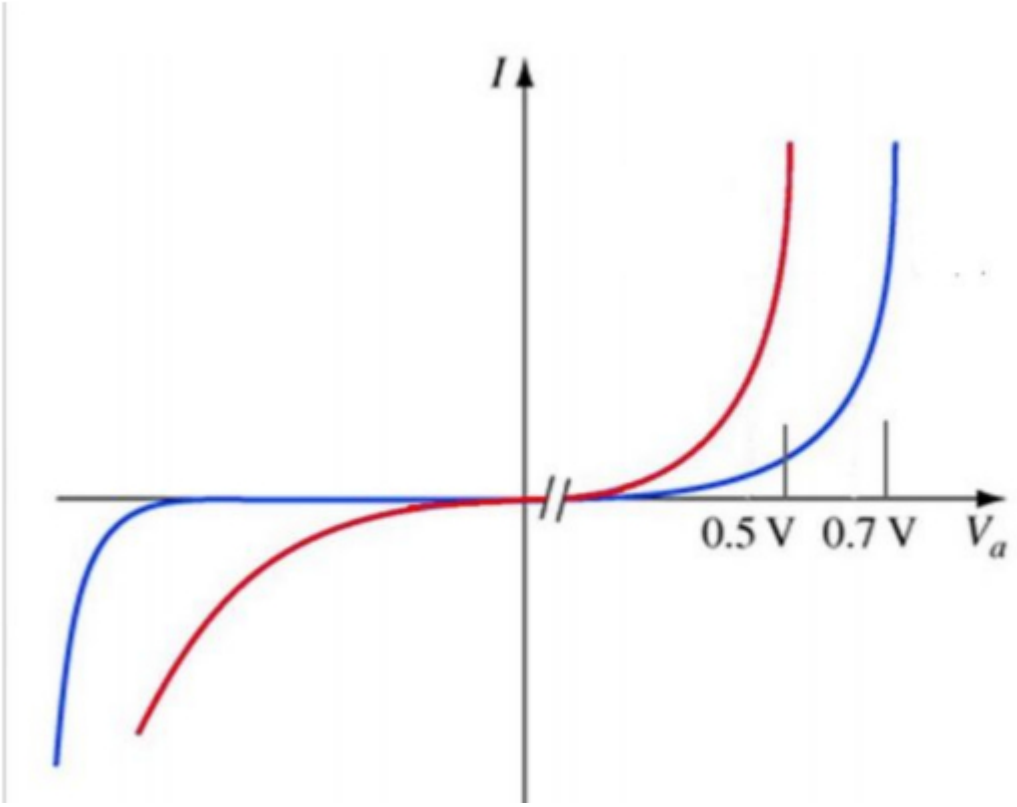
Bonus 1:



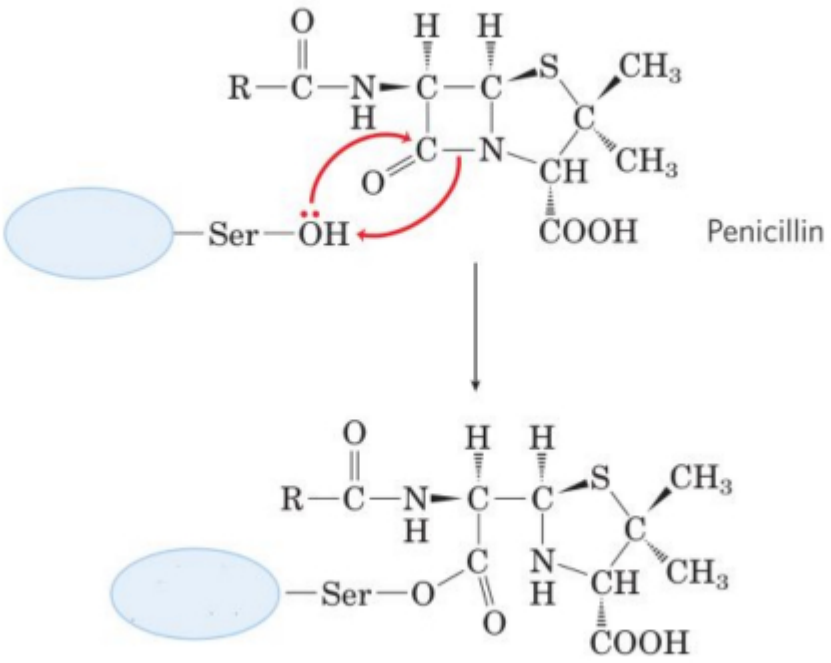
Bonus 3:



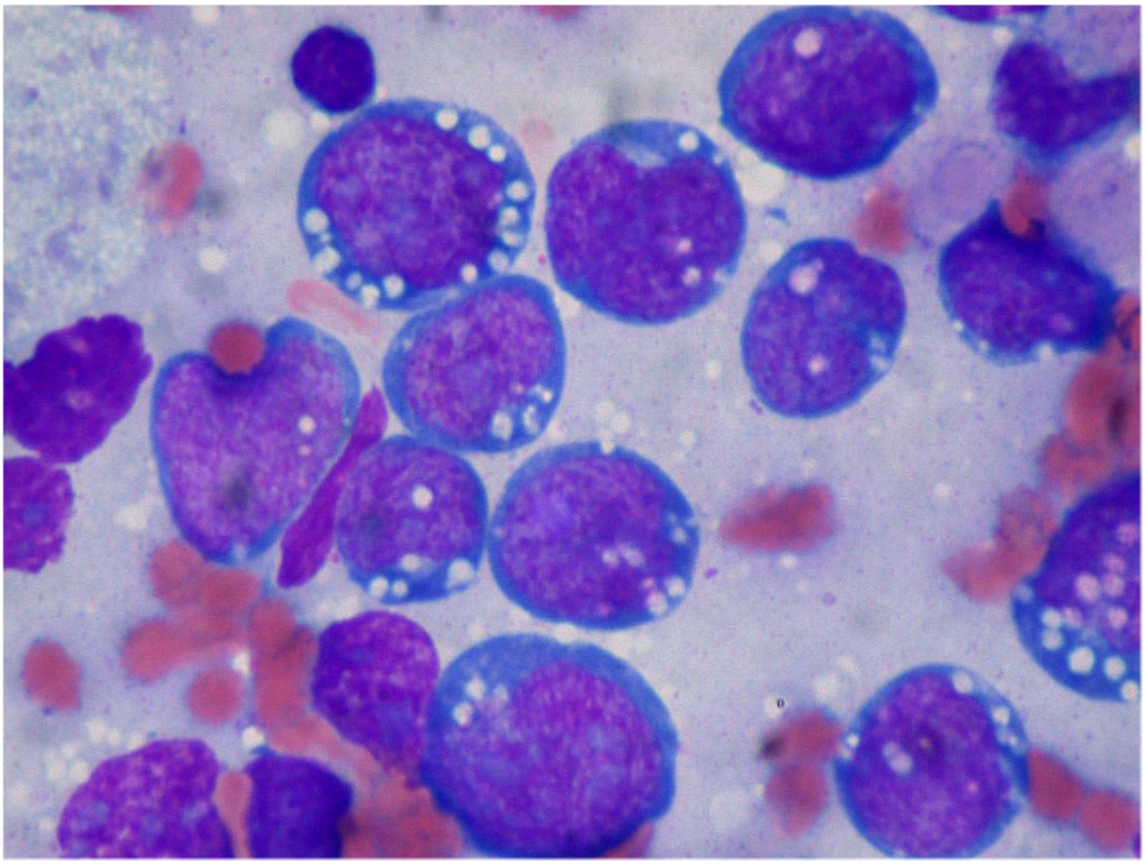
Bonus 4:



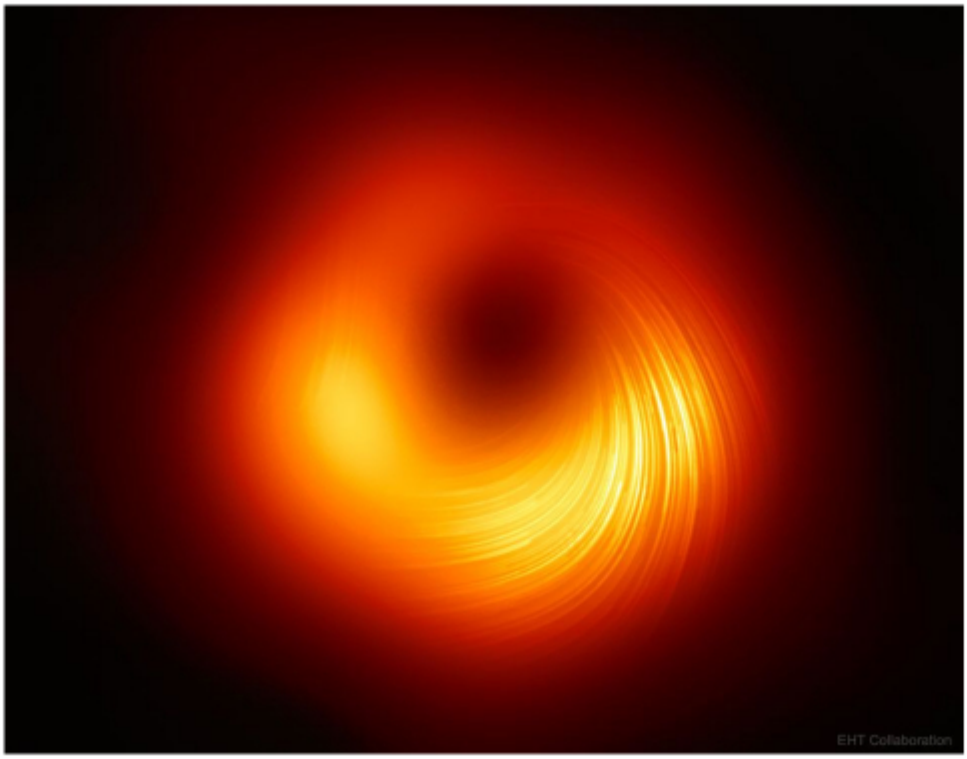
Bonus 5:



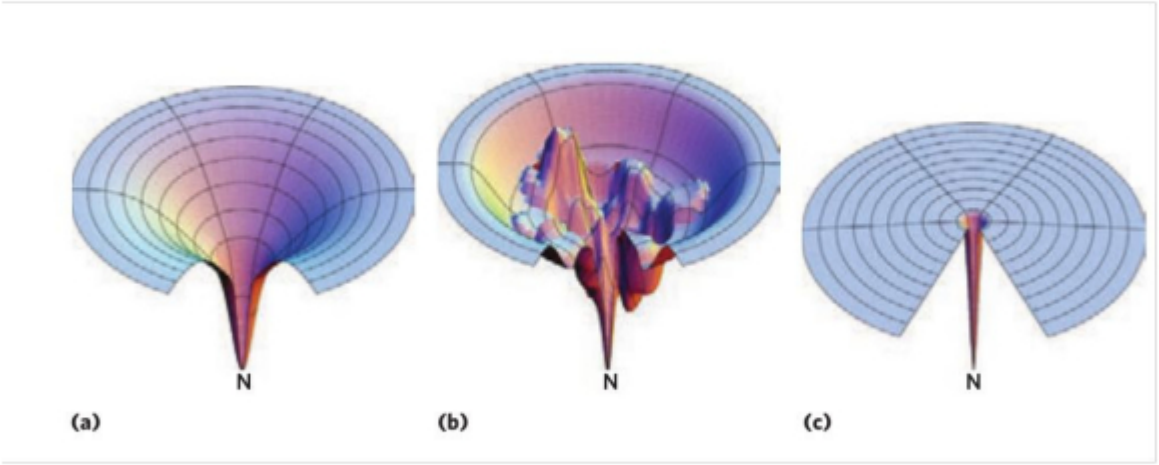
Bonus 6:



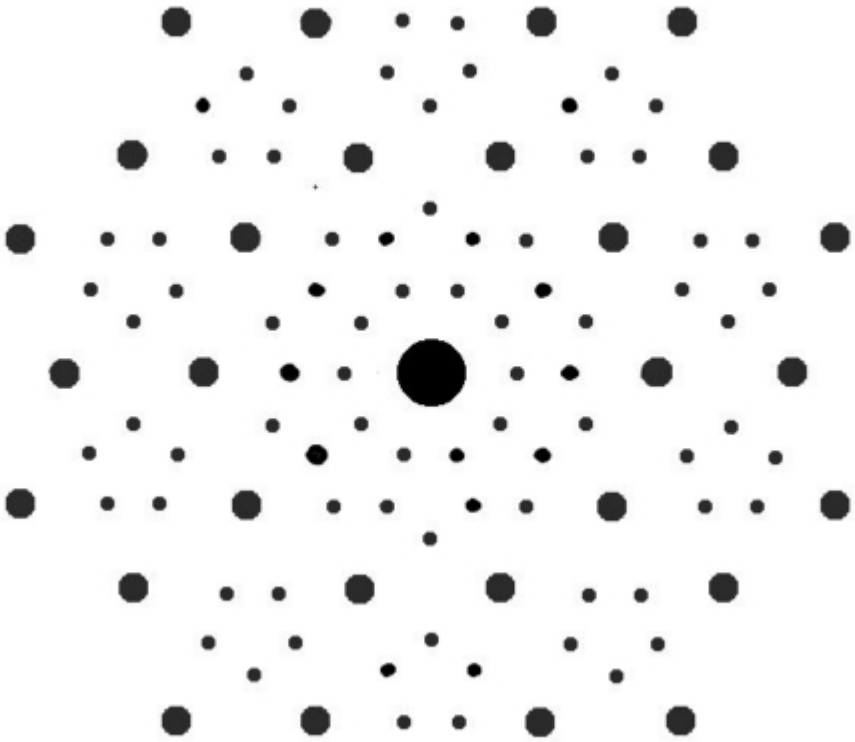
Bonus 8:



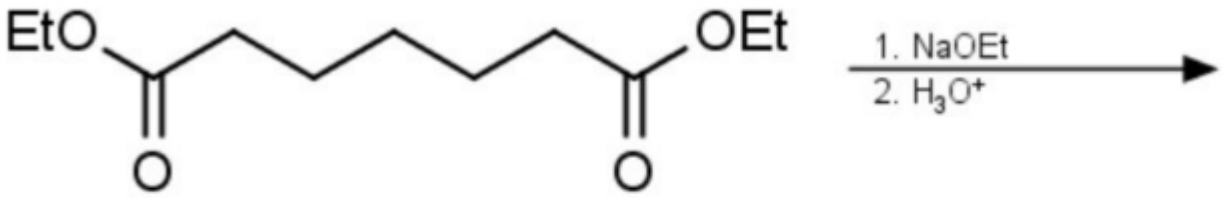
Bonus 11:

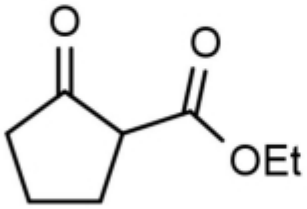


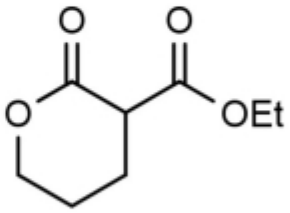
Bonus 12:

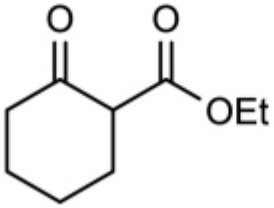


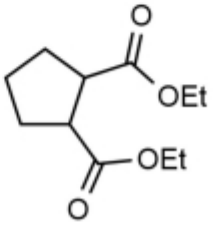
Bonus 13:



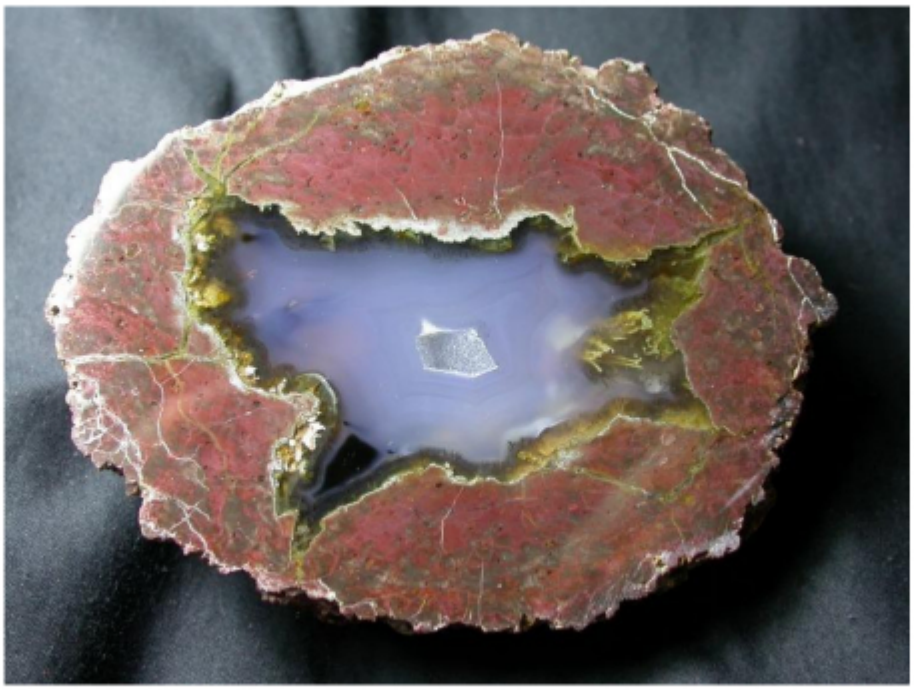
W) 

X) 

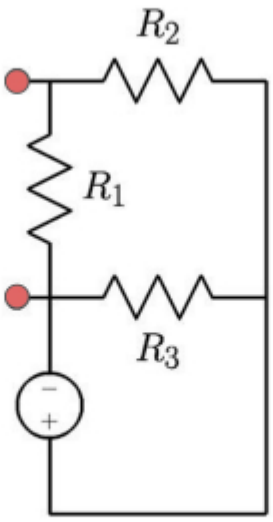
Y) 

Z) 

Bonus 15:

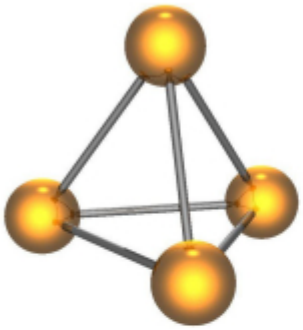


Bonus 16:

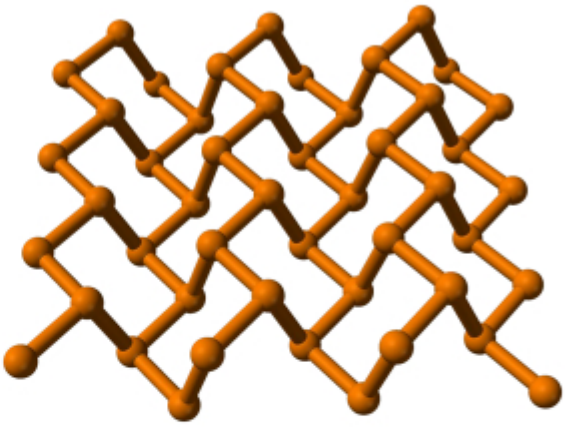


Bonus 18:

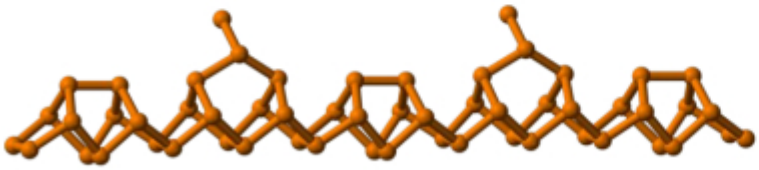
A



B



C

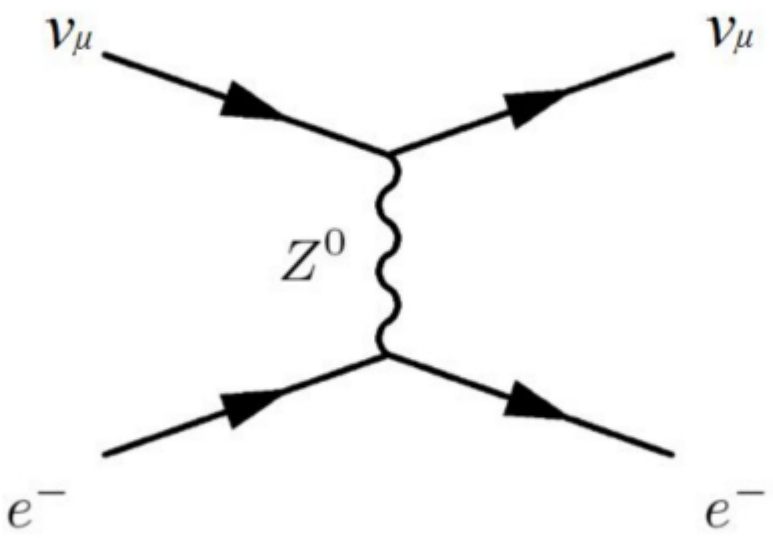


D

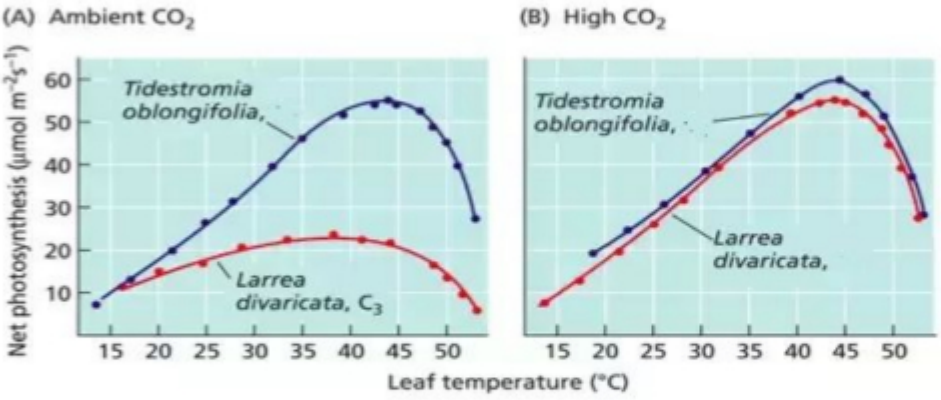
Bonus 20:

$$A = \begin{bmatrix} 1 & 2 & 4 \\ -1 & 3 & 1 \\ 2 & 1 & 5 \end{bmatrix}$$

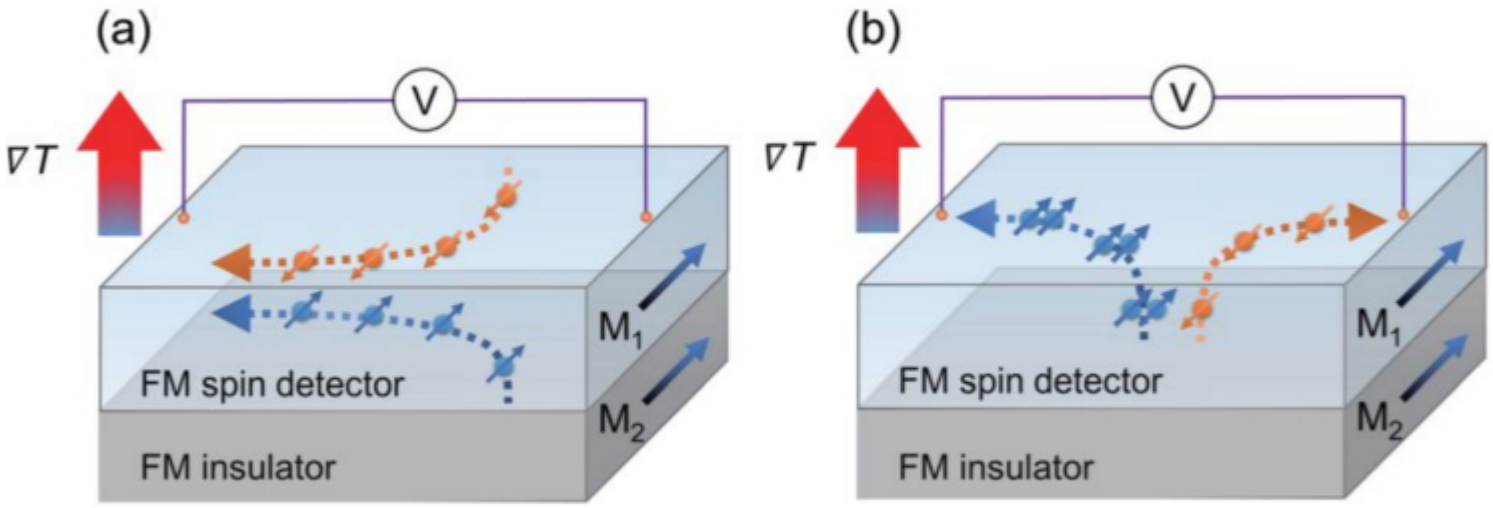
Bonus 22:



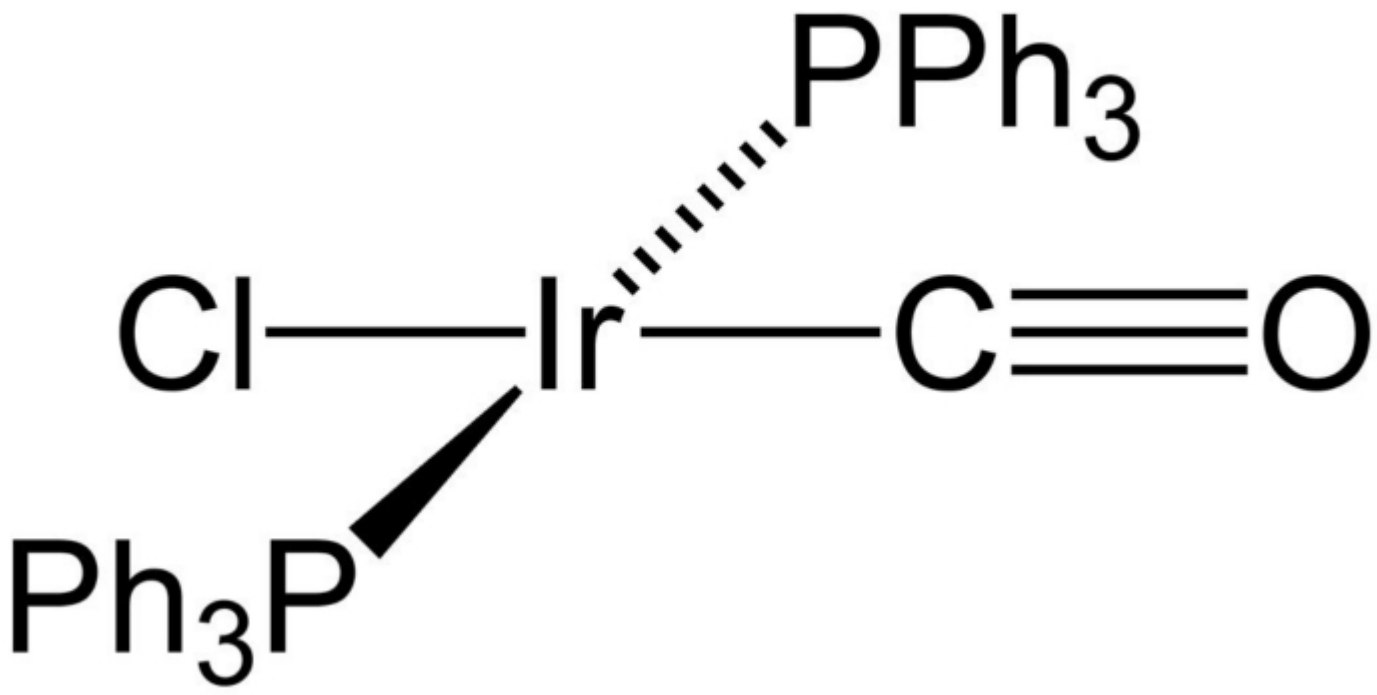
Bonus 23:


(A) Ambient CO_2
(B) High CO_2
Net photosynthesis (μmol $m^{-2}s^{-1}$)
60
50
40
30
20
10
Tidestromia oblongifolia,
Larrea divaricata, C_3
Tidestromia oblongifolia,
Larrea divaricata,
15 20 25 30 35 40 45 50
Leaf temperature (°C)

Bonus 24:


(a)
V
∇T
M1
M2
FM spin detector
FM insulator
(b)
V
∇T
M1
M2
FM spin detector
FM insulator

Bonus 25:



Credits:

Bonus 24: https://www.osti.gov/servlets/purl/1370536#:~:text=When%20a%20thermal%20gradient%20of,ANE%20proportional%20to%20the%20magnetization.