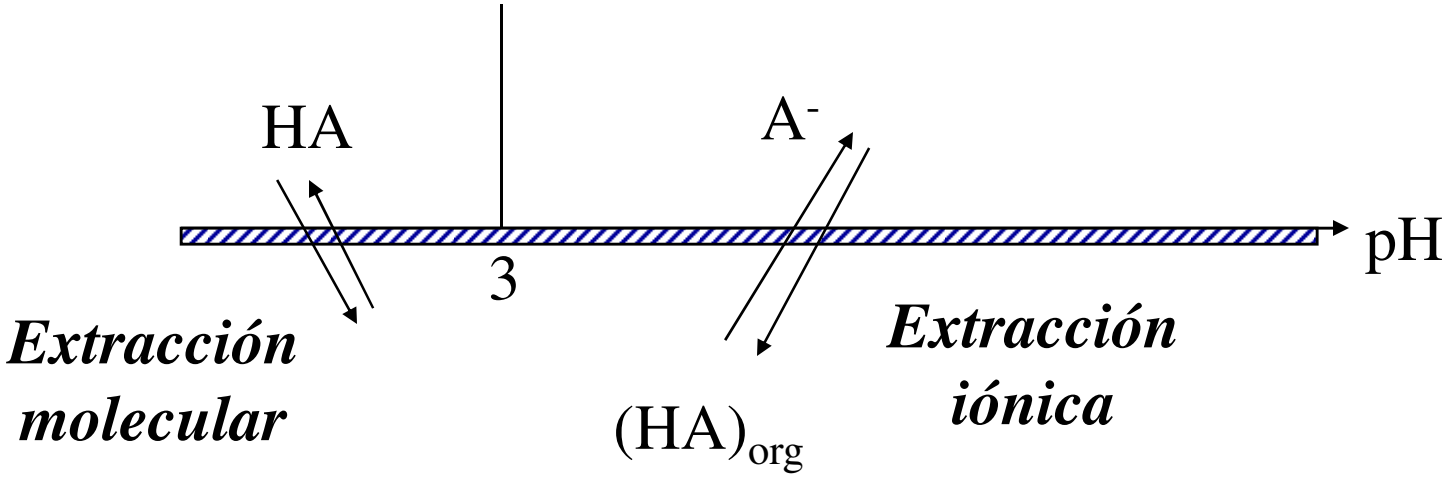
Acido salisilico DUZP (combinado)




$$\text{Log } (f/1-f) = f(pH)$$

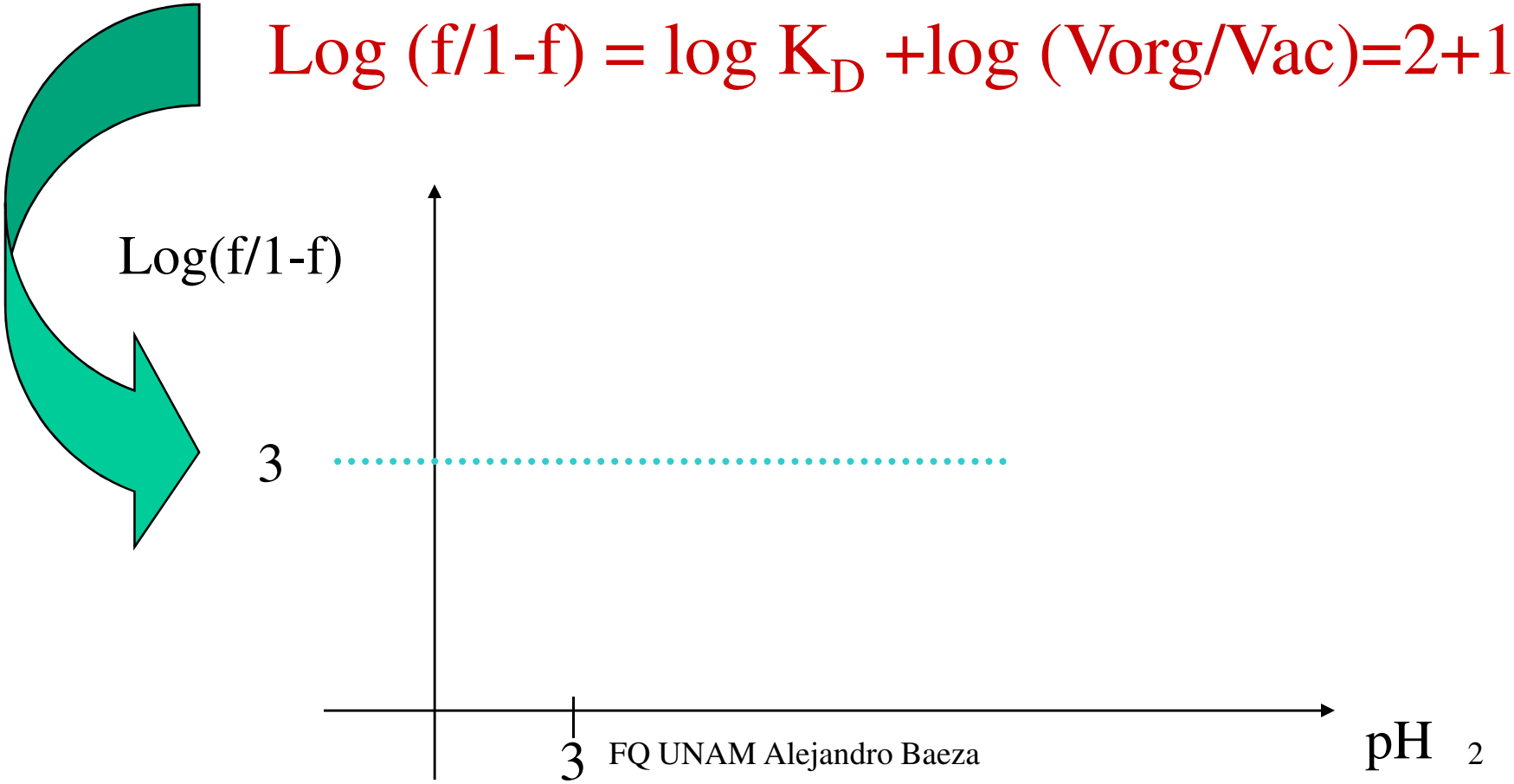
$K_D = 76.92$; $\log K = 1.9$

| | HA | = | $(HA)_{org}$ |
|---|---|---|---|
| In | CoVo | | |
| Eq | CoVo(1-f) | | fCoVo |

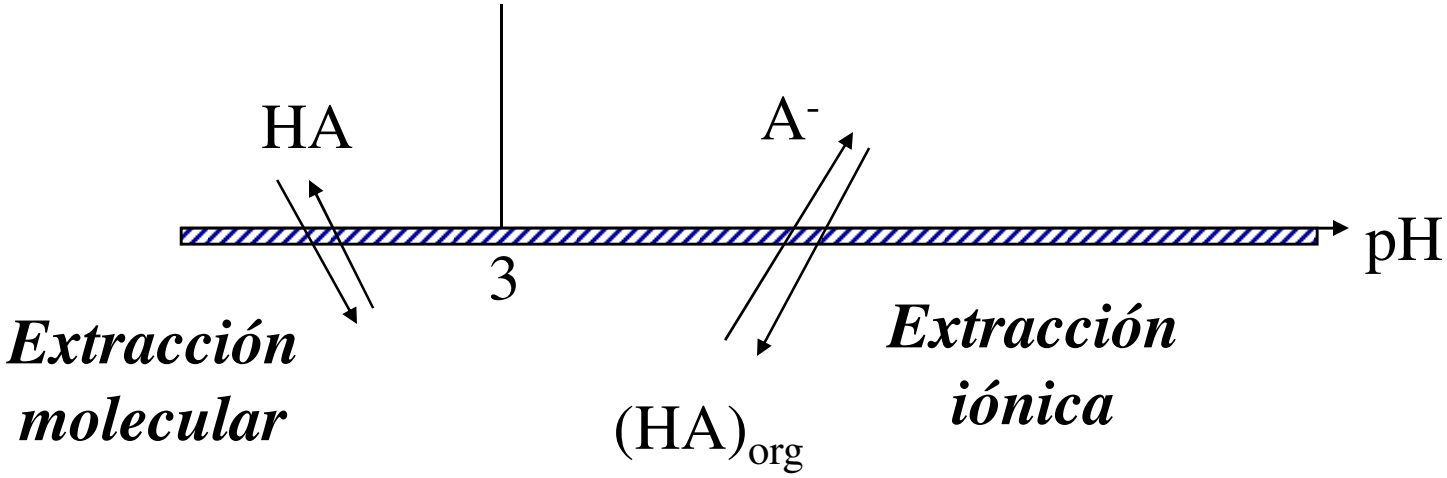
*continua*

$$K_D = \frac{(HA)_{org}}{(HA)} = \frac{fCoVo/Vorg}{CoVo(1-f)/Vo} = \frac{f(Vac/Vorg)}{(1-f)}$$

$$\text{Log } (f/1-f) = \log K_D + \log (Vorg/Vac) = 2+1=3$$



Acido salisilico DUZP (combinado)




$$\text{Log } (f/1-f) = f(pH)$$

$K_D = 76.92$; log K = 1.9

$$HA = (HA)_{org} \qquad K = 10^{1.9}$$

$$A^- + H^+ = HA \qquad K = 10^3$$

$$A^- + H^+ = (HA)_{org} \qquad K = 10^{4.9}$$

| | HA | = | $(HA)_{org}$ |
|---|---|---|---|
| In | CoVo | | |
| Eq | CoVo(1-f) | | fCoVo |



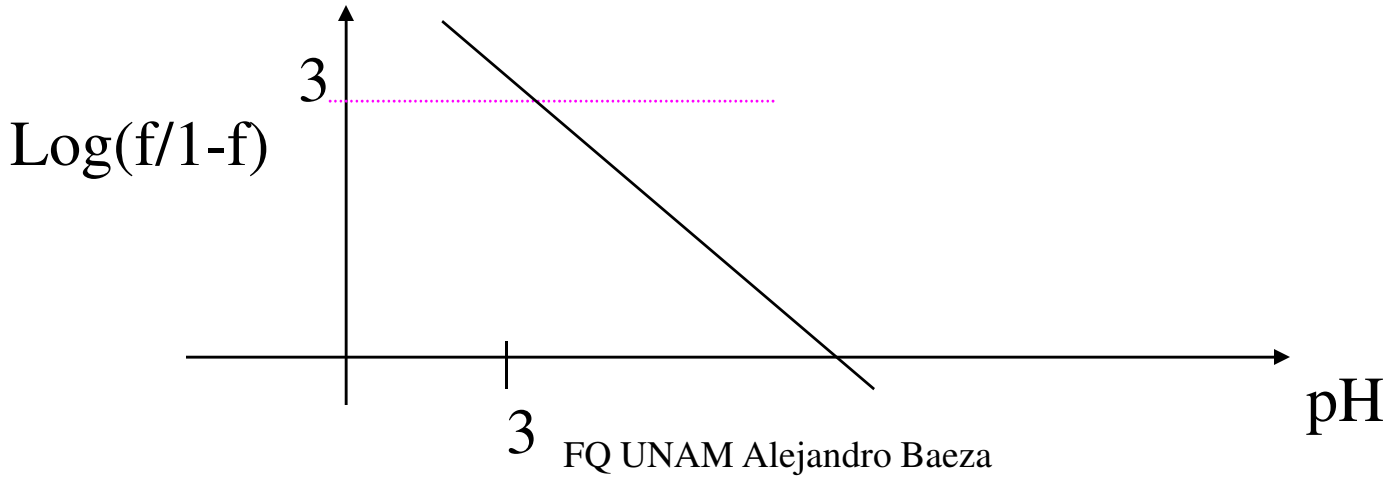
continua

$$A^- + H^+ = (HA)_{org} \quad K = 10^{4.9}$$

| | | | |
|---|---|---|---|
| In | fCoVac | | |
| Eq | CoVac(1-f) | $10^{-pH}$ | fCoVac |

$$K_E = \frac{fCoVac/Vorg}{CoVac(1-f)/Vac\ (10^{-pH})} = \frac{f(Vac/Vorg)}{(1-f)\ 10^{-pH}}$$

*Log (f/1-f) = log K + log (Vorg/Vac) + pH = 5.9 - pH*

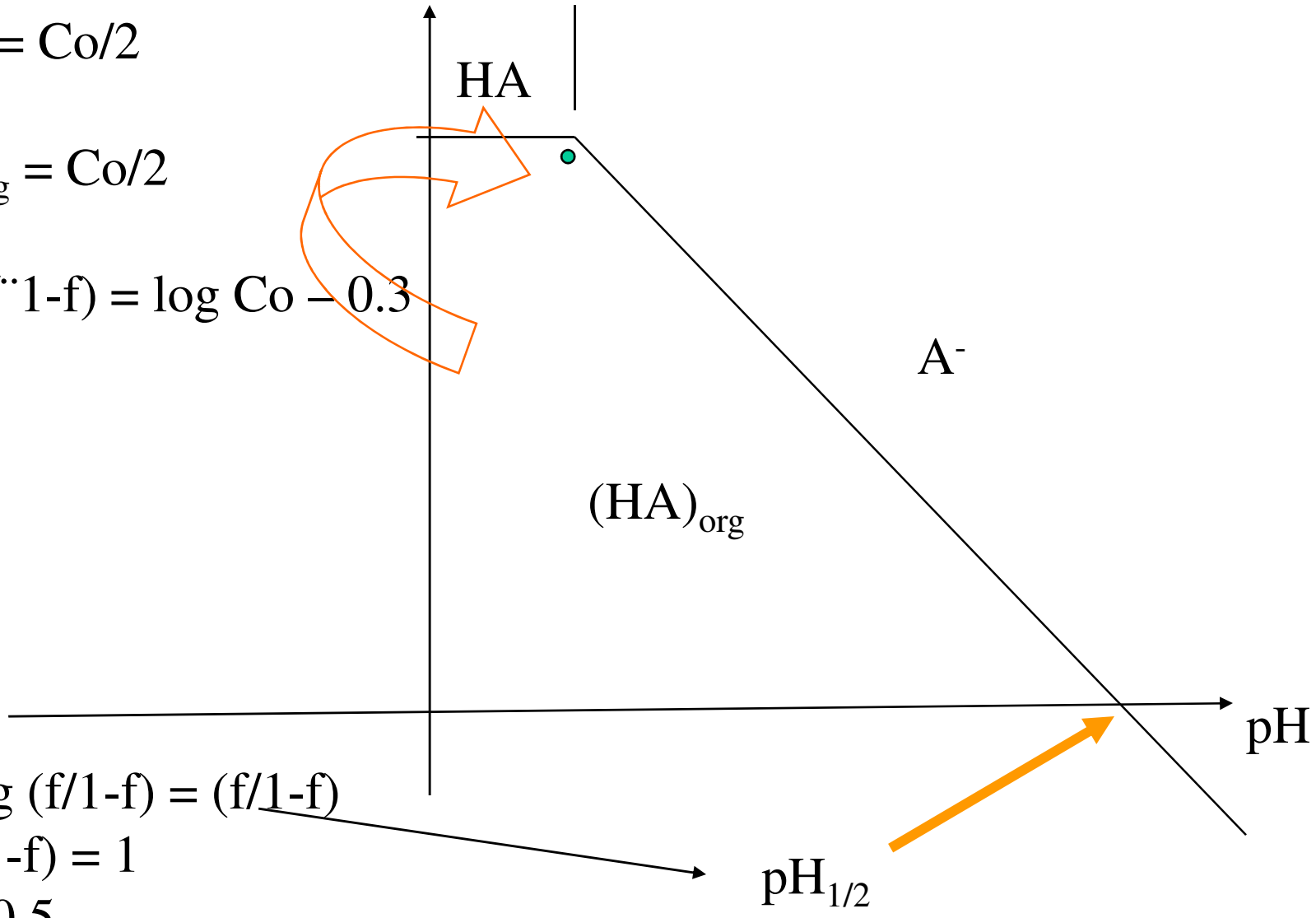


pH = pKa

$(HA)_{ac}$= Co/2

$(HA)_{org}$ = Co/2

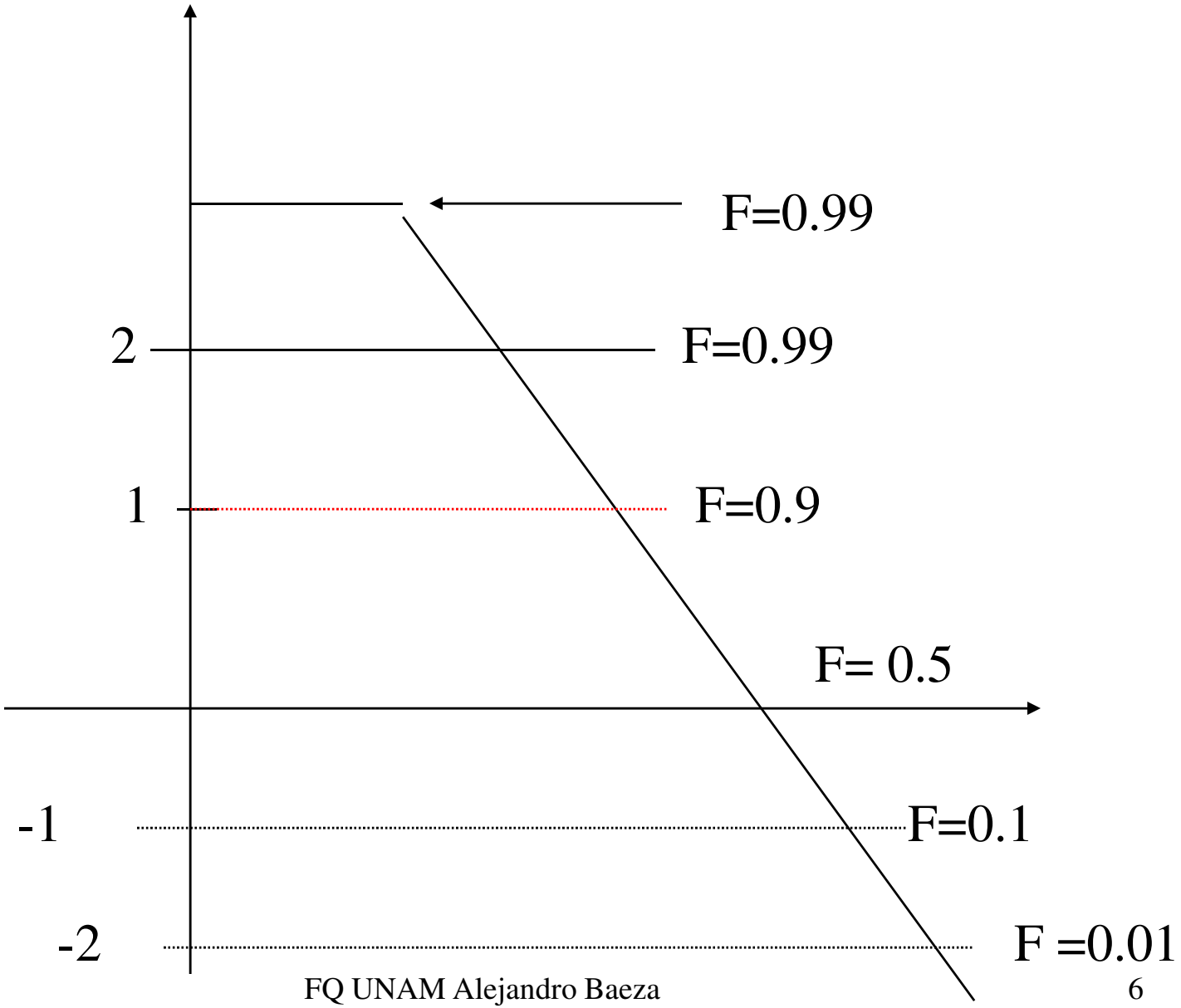
Log (f/¨1-f) = log Co – 0.3




Log (f/1-f) = (f/1-f)

(f/1-f) = 1

f= 0.5


F=0.99
2
F=0.99
1
F=0.9
F= 0.5
-1
F=0.1
-2
F =0.01