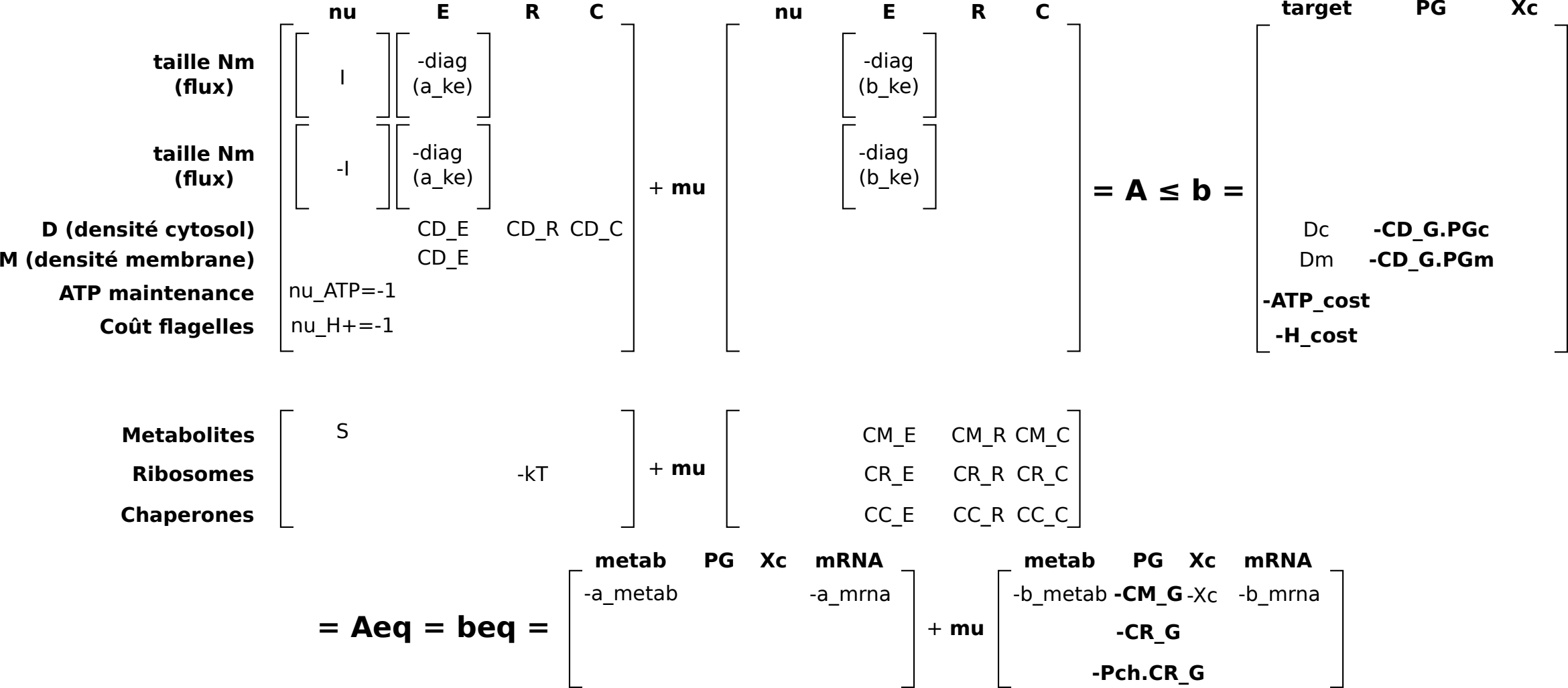
nu E R C
taille Nm (flux)
I
-diag (a_ke)
taille Nm (flux)
-I
-diag (a_ke)
D (densité cytosol)
CD_E CD_R CD_C
M (densité membrane)
CD_E
ATP maintenance
nu_ATP=-1
Coût flagelles
nu_H+=-1
+ mu
nu E R C
-diag (b_ke)
-diag (b_ke)
= A ≤ b =
target PG Xc
Dc -CD_G.PGc
Dm -CD_G.PGm
-ATP_cost
-H_cost
Metabolites
Ribosomes
Chaperones
S
-kT
+ mu
CM_E CM_R CM_C
CR_E CR_R CR_C
CC_E CC_R CC_C
= Aeq = beq =
metab PG Xc mRNA
-a_metab
-a_mrna
+ mu
metab PG Xc mRNA
-b_metab -CM_G -Xc -b_mrna
-CR_G
-Pch.CR_G