



- $M_{1 \rightarrow 2} = 1$
- $M_{2 \rightarrow 3} = P_{ALS}$
- $M_{3 \rightarrow 4} = 1$
- $M_{4 \rightarrow 5} = S_{ALS}$
- $M_{5 \rightarrow 6} = G_{ALS}$
- ~~$M_{6 \rightarrow 7} = 1$~~
- $M_{6 \rightarrow 7} = A_{ALS}$
- $M_{7 \rightarrow 2} = 1$

- $M_{2 \rightarrow 8} = P_{Refl}$
- $M_{8 \rightarrow 9} = S_{Refl}$
- $M_{9 \rightarrow 10} = G_{Refl}$
- $M_{10 \rightarrow 4} = D_{cpl}$
- $M_{10 \rightarrow 11} = A_{Refl}$
- $M_{11 \rightarrow 2} = 1$

Closed loop gain (to ② from ①) =

$$\frac{1}{1 - A_{Refl} G_{Refl} P_{Refl} S_{Refl} - A_{ALS} G_{ALS} S_{ALS} (P_{ALS} + D_{cpl} G_{Refl} P_{Refl} S_{Refl})}$$

~~$\frac{1}{1 - A_{Refl} G_{Refl} P_{Refl} S_{Refl} - A_{ALS} G_{ALS} S_{ALS} (P_{ALS} + D_{cpl} G_{Refl} P_{Refl} S_{Refl})}$~~