

Moteur CC: alimentation à tension variable

Conversion électromécanique

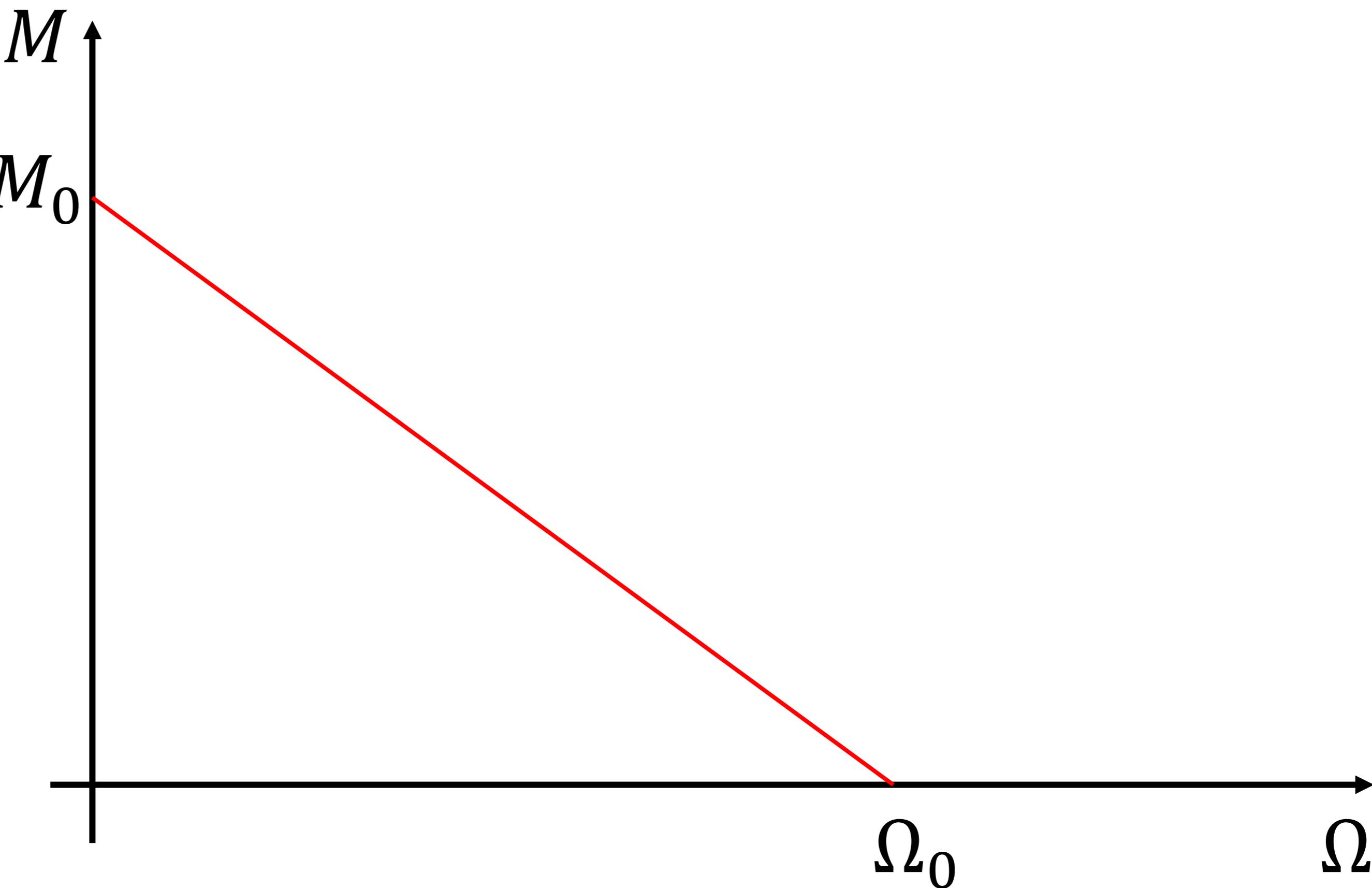
Prof. Perriard & Dr Koechli

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Effet sur la caractéristique couple-vitesse

$$M_0 = k_u \hat{\phi}_a \frac{U}{R}$$

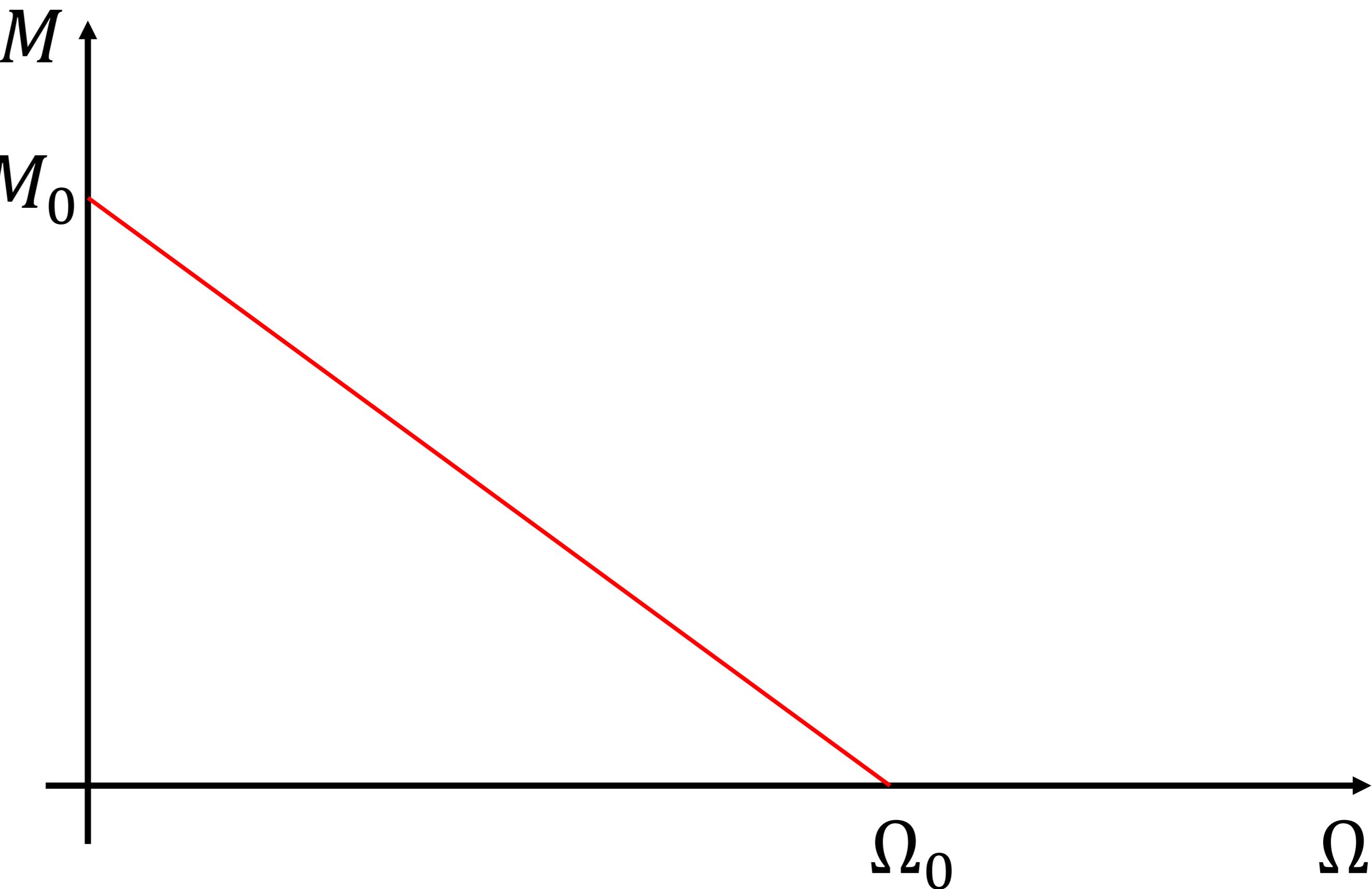
$$\Omega_0 = \frac{U}{k_u \hat{\phi}_a}$$



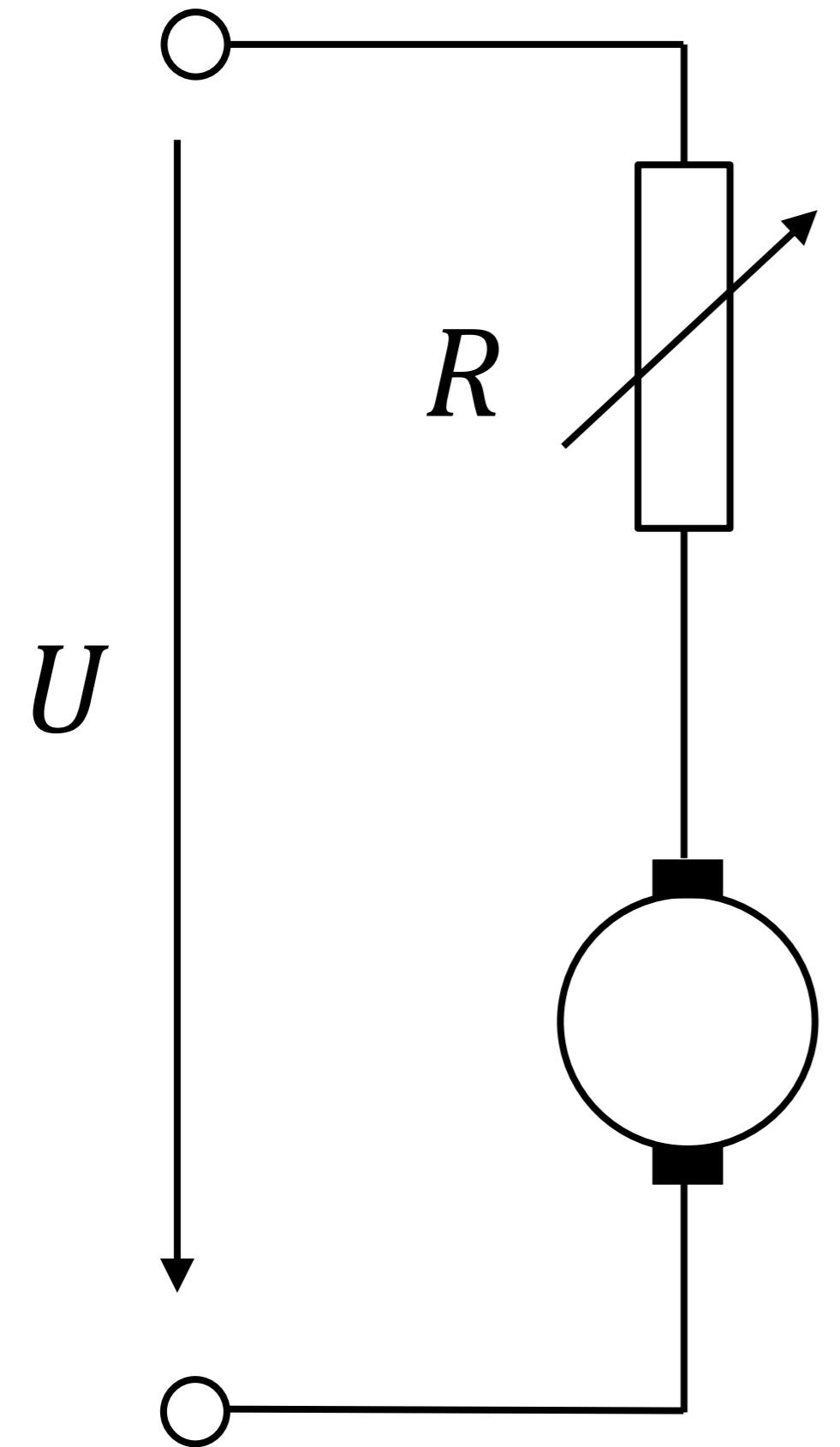
Limitation de courant

$$P_J = RI^2$$

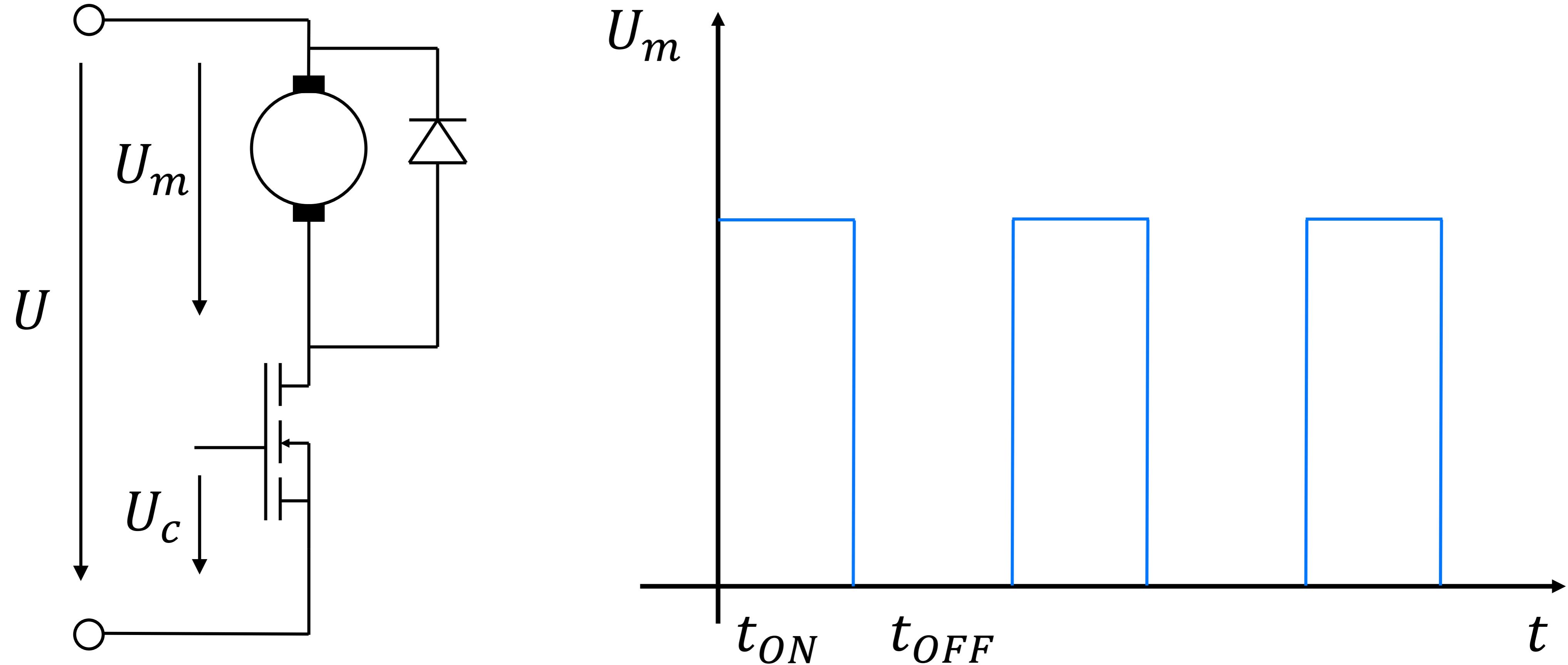
$$M = k_u \hat{\phi}_a I$$



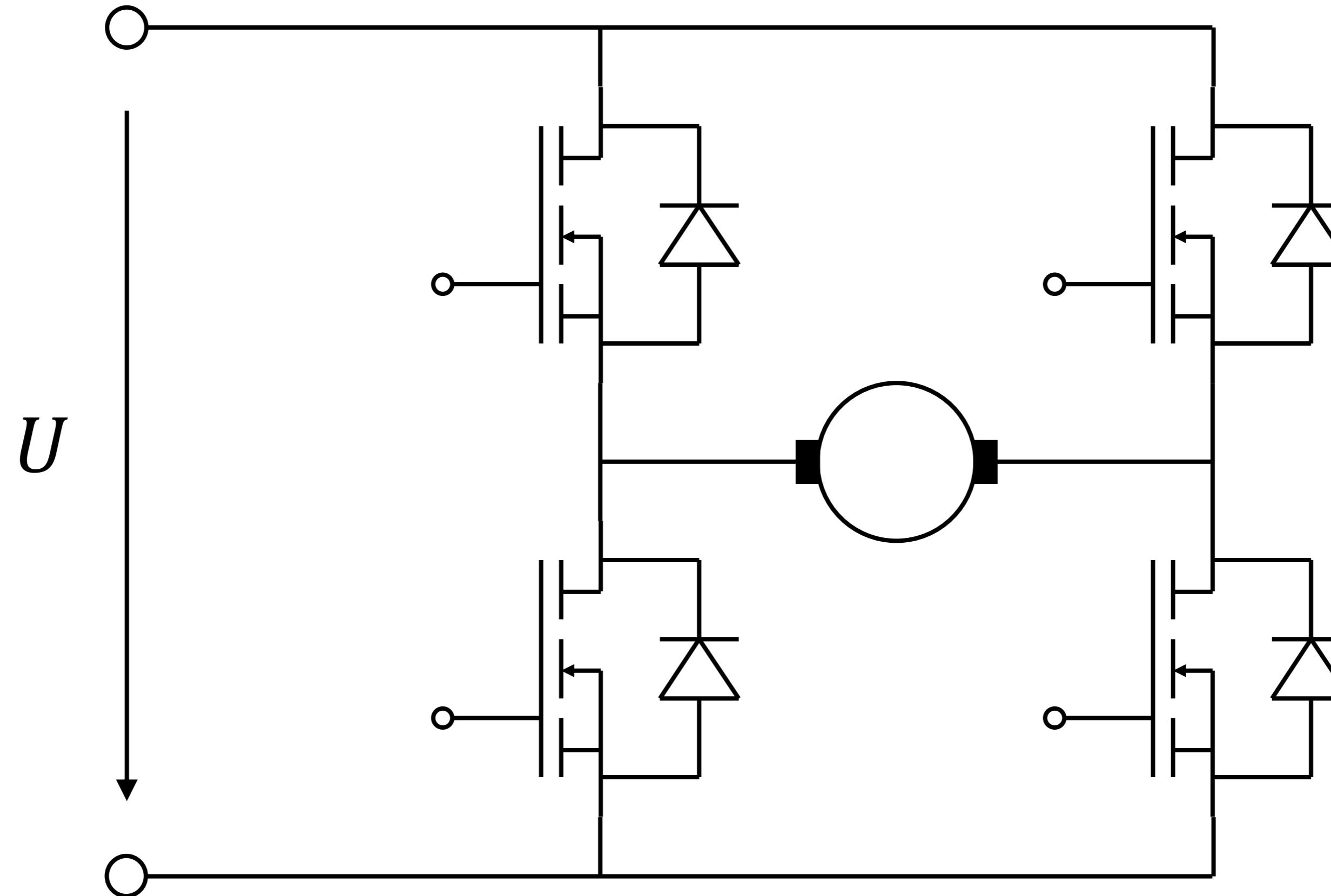
Historique



Implémentation: alimentation unipolaire



Implémentation: pont en H



Conclusion

- Influence de la tension et du courant sur la caractéristique $M(\Omega)$
- Variation de la tension moteur
 - Résistance
 - Alimentation unipolaire
 - Pont en H