Right hand rule (RHR) summary

Type I: RHR for forces on moving charges and currents

Moving + charges and currents

Thumb along \( \vec{v} \)
Fingers along \( \vec{F} \)
\( \vec{F} \) on + \( q \) is out of palm

Moving – charges

Thumb along \( \vec{v} \)
Fingers along \( \vec{F} \)
\( \vec{F} \) on – \( q \) is into palm

Type II: RHR for magnetic fields generated by currents

B field from wire

Thumb along \( l \)
Curl fingers along \( \vec{B} \)

B field inside loop

Thumb along \( l \)
Curl fingers along \( \vec{B} \)
OR:

Thumb along \( l \)
Curl fingers along \( \vec{B} \)