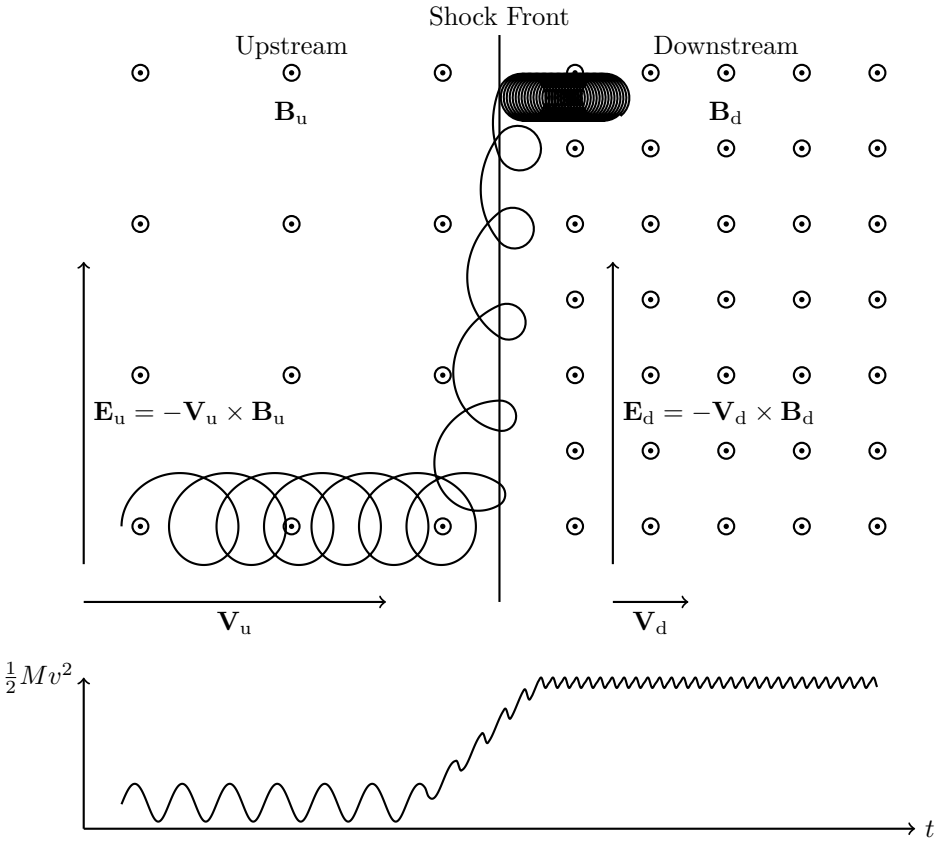
Shock Front
Upstream
Downstream
$\mathbf{B}_\mathrm{u}$
$\mathbf{B}_\mathrm{d}$
$\mathbf{E}_\mathrm{u} = -\mathbf{V}_\mathrm{u} \times \mathbf{B}_\mathrm{u}$
$\mathbf{E}_\mathrm{d} = -\mathbf{V}_\mathrm{d} \times \mathbf{B}_\mathrm{d}$
$\mathbf{V}_\mathrm{u}$
$\mathbf{V}_\mathrm{d}$
$\frac{1}{2}Mv^2$
t