

## Archimedean spiral structure of IMF: $\phi(r) \propto r$

In a frame rotating at the solar rotation rate ( $\Omega_\odot$ ), **steady** flow velocity of SW plasma is **parallel to IMF frozen into the plasma**.

$$\mathbf{v} \parallel \mathbf{B} \Rightarrow \frac{\partial \mathbf{B}}{\partial t} = \nabla \times (\mathbf{v} \times \mathbf{B}) = \mathbf{0}$$

