TBMT equation:

$$\Omega_x = a(\gamma G) \cdot B_x,$$
  

$$\Omega_y = a(\gamma G) \cdot B_y.$$

**Argument 1.**  $[\gamma \equiv \gamma_{eff}]$ : Let  $\vec{B} \cdot \vec{B}' = BB' \cos \theta, \theta \neq 0$ . (Fig. 1.)  $\gamma = \gamma' \wedge \Omega_y = \Omega'_y \xrightarrow{\text{TBMT}} B_y = B'_y \xrightarrow{\theta \neq 0} B_x \neq B'_x.$ 

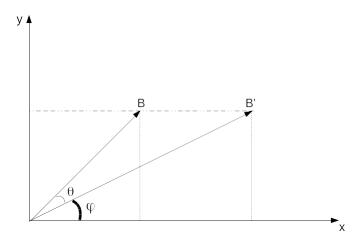


Figure 1: Argument 1 illustration.

$$\Omega'_{x} = a\vec{B}' \cdot \hat{x} = aB' \cos \phi = B_{y} \tan \phi,$$

$$\Omega_{x} = a\vec{B} \cdot \hat{x} = aB \cos(\theta + \phi) = B_{y} \tan(\theta + \phi),$$

$$\frac{\Omega_{x}}{\Omega'_{x}} = \frac{\tan(\theta + \phi)}{\tan \phi}.$$

Argument 2.  $[\gamma \equiv \gamma_s]$ :

$$\gamma_{eff} = f(\gamma_s, \Delta x, \Delta y).$$

