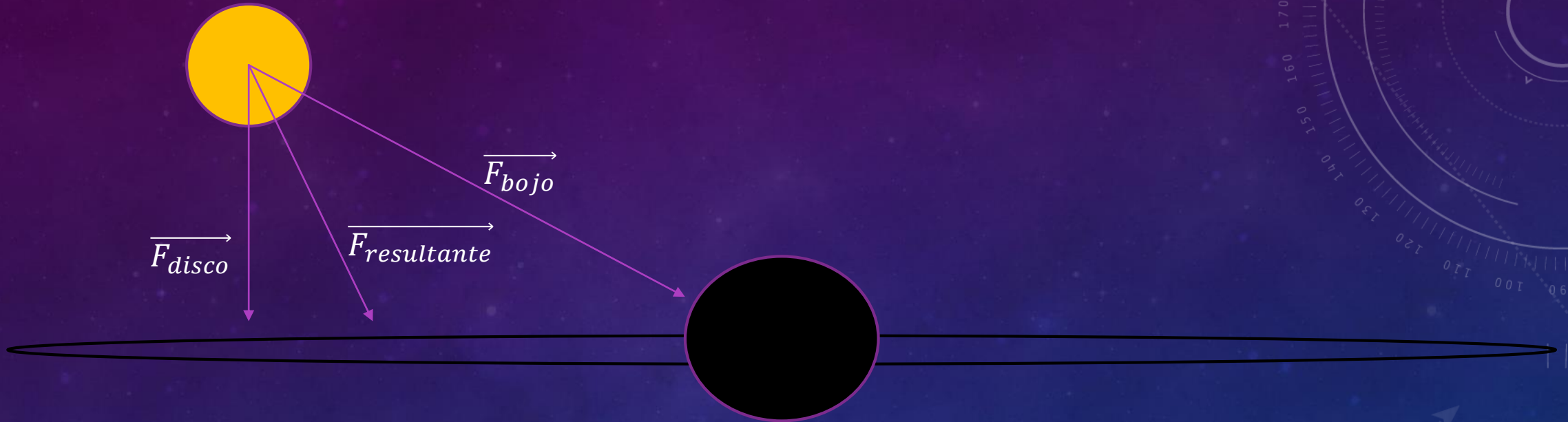
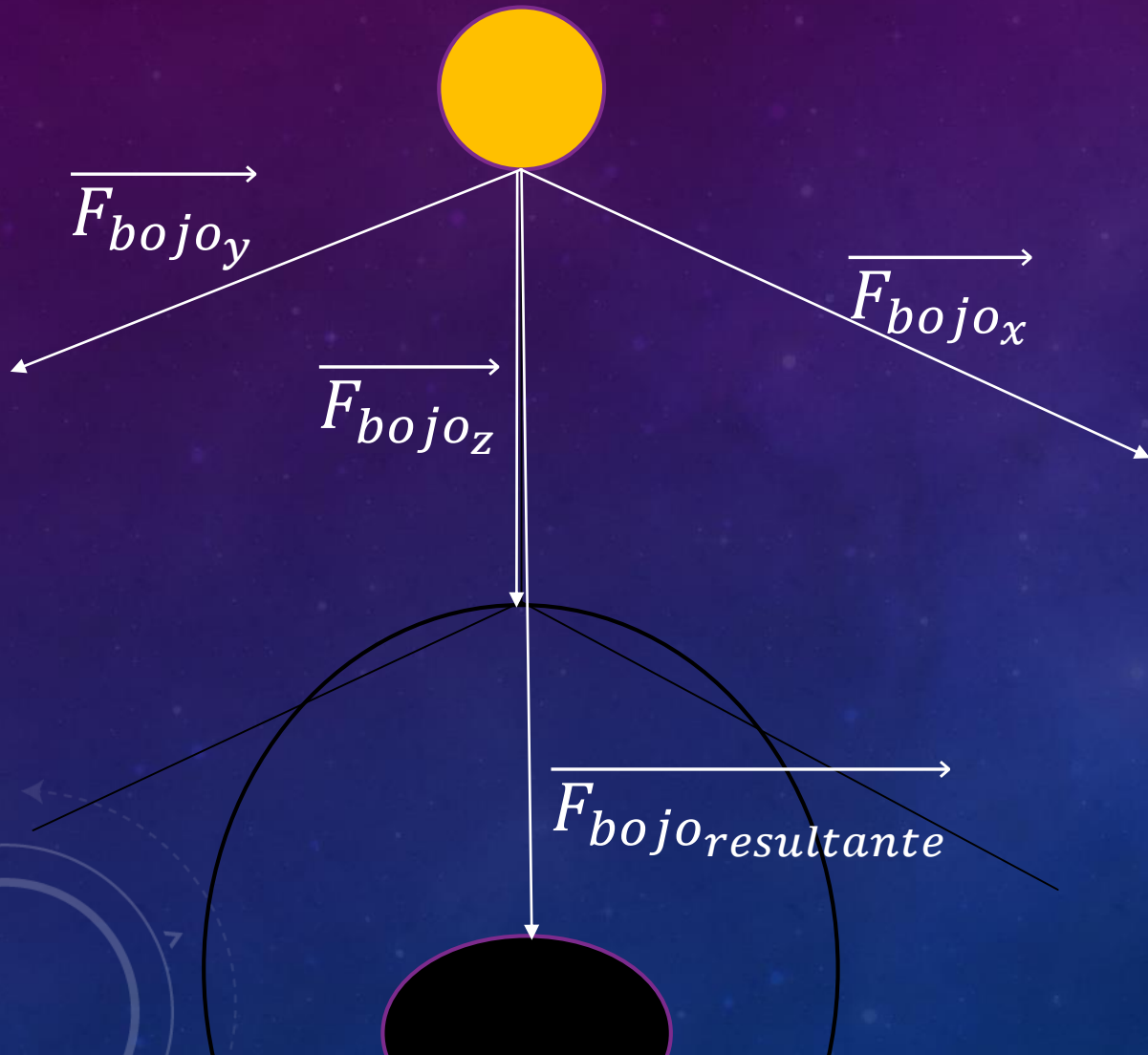


Diagrama de Corpo Livre e Equações



$$\overrightarrow{F_{resultante}} = \overrightarrow{F_{disco}} + \overrightarrow{F_{bojo}}$$

$$\overrightarrow{F_{disco}} = \frac{\frac{G \times M_{disco} \times m_{sol}}{d^2}}{m_{sol}}$$



$$\overrightarrow{F_{bojo}} = \overrightarrow{F_{bojo_y}} + \overrightarrow{F_{bojo_x}} + \overrightarrow{F_{bojo_z}}$$



$$\overrightarrow{F_{bojo_{eixo}}} = \frac{\frac{G \times M_{bojo} \times m_{sol}}{r^2} \times \frac{R_{eixo}}{\|R\|}}{m_{sol}}$$