Intensity, $I$, of light (with $k=2 \pi / \lambda$ ) that has gone throught $N$-slits, separated by $d$, and is headed towards the screen at an angle of $\theta$ :

$$
I \propto\left(\frac{\sin (k N d \sin (\theta) / 2)}{\sin (k d \sin (\theta) / 2)}\right)^{2}
$$

