

Correction for "Formula for the asymmetric diffraction peak profiles based on double Soller slit geometry", *Rev. Sci. Instrum.*, **69**, 2268-2272 (1998)  
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Equations (13) and (14) on page 2270:

$$\frac{\Phi_B^2}{4} w_{BB} = -\frac{(1+t^2 u) \left[ 3t + \sqrt{1-(1-t^2)u} \right]}{2(1+t\sqrt{1-(1-t^2)u})} + tu \\ + 2\sqrt{-(1-t^2)u} + \left( 1 + \frac{1+t^2}{2} u \right) \\ \times \ln \frac{1+\sqrt{1-(1-t^2)u}}{(1+t)\sqrt{-u}} + \frac{1+t^2}{2} u \ln \frac{1-t}{1+t}$$

for  $-\frac{1-t^2}{4t^2} \leq u < 0$ , (13)

$$\frac{\Phi_B^2}{4} w_{BB} = -\frac{(1+t^2 u) \left[ 3t + \sqrt{1-(1-t^2)u} \right]}{2(1+t\sqrt{1-(1-t^2)u})} \\ + \left( 1 + \frac{1+t^2}{2} u \right) \ln \frac{1+\sqrt{1-(1-t^2)u}}{(1+t)\sqrt{u}}$$

for  $0 \leq u < 1$ , (14)

should be corrected as:

$$\frac{\Phi_B^2}{4} w_{BB} = -\frac{(1-u) \left[ 3 + t\sqrt{1-(1-t^2)u} \right]}{2(t+\sqrt{1-(1-t^2)u})} + tu \\ + 2\sqrt{-(1-t^2)u} + \ln \frac{1+\sqrt{1-(1-t^2)u}}{(1+t)\sqrt{-u}} \\ + \frac{1+t^2}{2} u \ln \frac{(1-t)(1+\sqrt{1-u(1-t^2)})}{\sqrt{-u}(1+t)^2}$$

for  $-\frac{1-t^2}{4t^2} \leq u < 0$ , (13)

$$\frac{\Phi_B^2}{4} w_{BB} = -\frac{(1-u) \left[ 3 + t\sqrt{1-(1-t^2)u} \right]}{2(t+\sqrt{1-(1-t^2)u})} \\ + \left( 1 + \frac{1+t^2}{2} u \right) \ln \frac{1+\sqrt{1-(1-t^2)u}}{(1+t)\sqrt{u}}$$

for  $0 \leq u < 1$ , (14)