$$\mathbb{SD}\$g = \sqrt{\frac{\text{Cosh}\left[\frac{\hbar}{2}\sqrt{t^2+\gamma^2\epsilon^2+4\epsilon\varpi}\,\right]-\text{Cosh}\left[\frac{\hbar t-\hbar\epsilon\gamma}{2}-a\epsilon\hbar\right]}{\text{Sinh}\left[\frac{\gamma\epsilon\hbar}{2}\right]\left(t\left(2a+\gamma\right)-2a\left(a+\gamma\right)\epsilon+2\varpi\right)\hbar/\left(2\gamma\right)}};$$

$$\mathbb{SD}\$g = \sqrt{\frac{\text{Cosh}\left[\frac{\hbar}{2}\sqrt{t^2+\gamma^2\epsilon^2+4\epsilon\varpi}\,\right]-\text{Cosh}\left[\frac{\hbar t}{2}-a\epsilon\hbar-\frac{\gamma\epsilon\hbar}{2}\right]}{\text{Sinh}\left[\frac{\gamma\epsilon\hbar}{2}\right]\left(t\left(2a+\gamma\right)-2a\left(a+\gamma\right)\epsilon+2\varpi\right)\hbar/\left(2\gamma\right)}};$$

$$\mathbb{SD}\$g = \sqrt{\frac{\text{Cosh}\left[\frac{\hbar}{2}\sqrt{t^2+\gamma^2\epsilon^2+4\epsilon\varpi}\,\right]-\text{Cosh}\left[\frac{\hbar}{2}\left(t-2a\epsilon-\gamma\epsilon\right)\right]}{\text{Sinh}\left[\frac{\gamma\epsilon\hbar}{2}\right]\left(t\left(2a+\gamma\right)-2a\left(a+\gamma\right)\epsilon+2\varpi\right)\hbar/\left(2\gamma\right)}};$$

$$\mathbb{SD}\$g = \sqrt{\frac{\text{Cosh}\left[\frac{\hbar}{2}\sqrt{t^2+\gamma^2\epsilon^2+4\epsilon\varpi}\,\right]-\text{Cosh}\left[\frac{\hbar}{2}\left(t-\left(2a+\gamma\right)\epsilon\right)\right]}{\text{Sinh}\left[\frac{\gamma\epsilon\hbar}{2}\right]\left(t\left(2a+\gamma\right)-2a\left(a+\gamma\right)\epsilon+2\varpi\right)\hbar/\left(2\gamma\right)}};$$

$$\mathbb{SD}\$g = \sqrt{\frac{\text{Cosh}\left[\frac{\hbar}{2}\sqrt{t^2+\gamma^2\epsilon^2+4\epsilon\varpi}\,\right]-\text{Cosh}\left[\frac{\hbar t-\hbar\epsilon\gamma-2\hbar\epsilon a}{2}\right]}{\text{Sinh}\left[\frac{\gamma\epsilon\hbar}{2}\right]\left(t\left(2a+\gamma\right)-2a\left(a+\gamma\right)\epsilon+2\varpi\right)\hbar/\left(2\gamma\right)}};$$

$$\mathbb{SD}\$g = \sqrt{\frac{2\gamma\left(\text{Cosh}\left[\frac{\hbar}{2}\sqrt{t^2+\gamma^2\epsilon^2+4\epsilon\varpi}\,\right]-\text{Cosh}\left[\frac{t-\epsilon\gamma-2\epsilon a}{2/\hbar}\right]\right)}{\text{Sinh}\left[\frac{\gamma\epsilon\hbar}{2}\right]\left(t\left(2a+\gamma\right)-2a\left(a+\gamma\right)\epsilon+2\varpi\right)\hbar}};$$

$$\mathbb{SD}\$g = \sqrt{\frac{\frac{2\gamma}{\hbar}\left(\text{Cosh}\left[\sqrt{\frac{t^2+\gamma^2\epsilon^2+4\epsilon\varpi}{4/\hbar^2}}\,\right]-\text{Cosh}\left[\frac{t-\epsilon\gamma-2\epsilon a}{2/\hbar}\right]\right)}{\text{Sinh}\left[\frac{\gamma\epsilon\hbar}{2}\right]\left(t\left(2a+\gamma\right)-2a\left(a+\gamma\right)\epsilon+2\varpi\right)}};$$