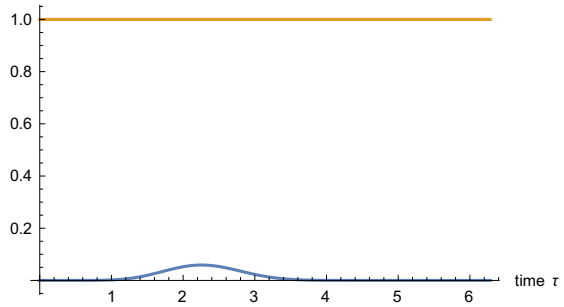
==========

$E(\tau) = 2^{-4\,L} |\epsilon[\tau]|^2$

$L = 8 \quad r = 1$

$$\epsilon[\tau] = 64\,\text{Csc}\left[\frac{\tau}{4}\right]^6 \text{Sin}\left[\frac{\tau}{2}\right]^{10}$$

Normalized Bell Correlator $2^L E(\tau)$ | L = 8 r = 1



==========

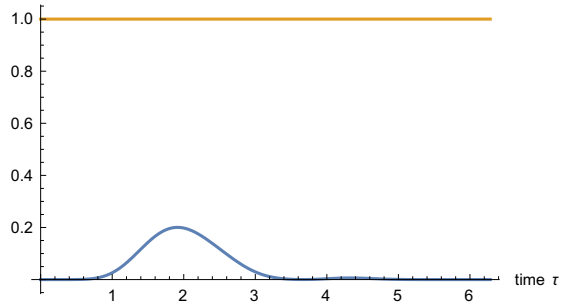
$E(\tau) = 2^{-4\,L} |\epsilon[\tau]|^2$

$L = 8 \quad r = 2$

$$\epsilon[\tau] = 4096\,\text{Cos}\left[\frac{\tau}{4}\right]^6 \left(3\,\text{Cos}\left[\frac{\tau}{4}\right] + 2\,\text{Cos}\left[\frac{3\,\tau}{4}\right] + i\,\text{Sin}\left[\frac{\tau}{4}\right]\right) \text{Sin}\left[\frac{\tau}{4}\right]^4$$

$$\left(4\,\text{Cos}\left[\frac{\tau}{4}\right] + 3\,\text{Cos}\left[\frac{3\,\tau}{4}\right] + 7\,\text{Cos}\left[\frac{5\,\tau}{4}\right] + 2\,\text{Cos}\left[\frac{7\,\tau}{4}\right] - i\left(22\,\text{Sin}\left[\frac{\tau}{4}\right] - 13\,\text{Sin}\left[\frac{3\,\tau}{4}\right] + 13\,\text{Sin}\left[\frac{5\,\tau}{4}\right]\right)\right)$$

Normalized Bell Correlator $2^L E(\tau)$ | L = 8 r = 2



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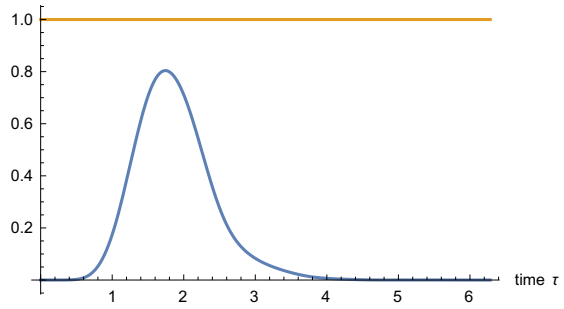
$E(\tau) = 2^{-4\,L} |\epsilon[\tau]|^2$

$L = 8 \quad r = 3$

$\epsilon[\tau] =$

$$64\,\text{Sin}\left[\frac{\tau}{2}\right]^4 \left(6 + 13\,\text{Cos}\left[\frac{\tau}{2}\right] + 8\,\text{Cos}[\tau] + 5\,\text{Cos}\left[\frac{3\,\tau}{2}\right] + 3\,i\,\text{Sin}\left[\frac{\tau}{2}\right] + 4\,i\,\text{Sin}[\tau] + 3\,i\,\text{Sin}\left[\frac{3\,\tau}{2}\right]\right)\left(8\,\text{Cos}\left[\frac{\tau}{2}\right] - 4\,\text{Cos}[\tau] + 15\,\text{Cos}\left[\frac{3\,\tau}{2}\right] + 4\,\text{Cos}[2\,\tau] + 9\,\text{Cos}\left[\frac{5\,\tau}{2}\right] - i\left(2\,\text{Sin}\left[\frac{\tau}{2}\right] + 9\,\text{Sin}\left[\frac{3\,\tau}{2}\right] + 8\,\text{Sin}[2\,\tau] + 7\,\text{Sin}\left[\frac{5\,\tau}{2}\right]\right)\right)$$

Normalized Bell Correlator $2^L E(\tau)$ | L = 8 r = 3



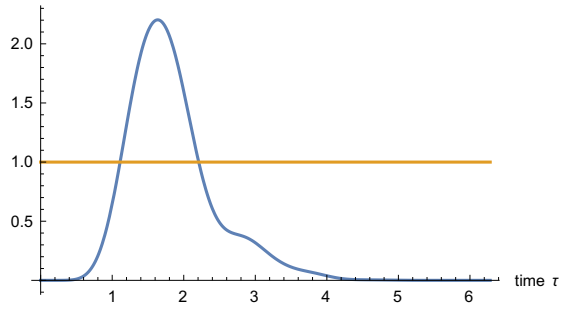
==========

$E(\tau) = 2^{-4\,L} |\epsilon[\tau]|^2$

L = 8 r = 4

$$\epsilon[\tau] = 64 \sin\left[\frac{\tau}{2}\right]^4 \left(12 + 22 \cos\left[\frac{\tau}{2}\right] + 19 \cos[\tau] + 12 \cos\left[\frac{3\tau}{2}\right] + 5 \cos[2\tau] + 6\,i \sin\left[\frac{\tau}{2}\right] + 9\,i \sin[\tau] + 8\,i \sin\left[\frac{3\tau}{2}\right] + 3\,i \sin[2\tau]\right)\left(-18 \cos\left[\frac{\tau}{2}\right] + 19 \cos[\tau] - 6 \cos\left[\frac{3\tau}{2}\right] + 9 \cos[2\tau] + 8 \cos\left[\frac{5\tau}{2}\right] + 9 \cos[3\tau] + i\left(-11\,i + 2 \sin\left[\frac{\tau}{2}\right] - 5 \sin[\tau] - 2 \sin\left[\frac{3\tau}{2}\right] - 3 \sin[2\tau] - 12 \sin\left[\frac{5\tau}{2}\right] - 7 \sin[3\tau]\right)\right)$$

Normalized Bell Correlator $2^L E(\tau)$ | L = 8 r = 4



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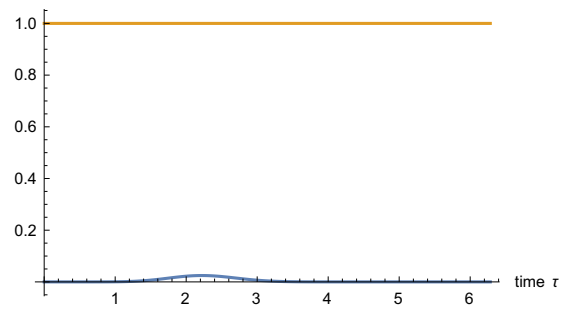
$E(\tau) = 2^{-4\,L} |\epsilon[\tau]|^2$

L = 10 r = 1

$$\epsilon[\tau] = 128\,i \csc\left[\frac{\tau}{4}\right]^8 \sin\left[\frac{\tau}{2}\right]^{13}$$

Normalized Bell Correlator $2^L E(\tau)$ | L = 10 r = 1



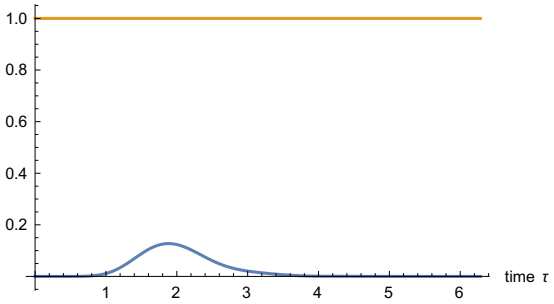
==========

$$E(\tau) = 2^{-4\,L} |\epsilon[\tau]|^2$$

L = 10 r = 2

$$\epsilon[\tau] = 65\,536\, i \cos\left[\frac{\tau}{4}\right]^8 \sin\left[\frac{\tau}{4}\right]^5 \left(24 \cos\left[\frac{\tau}{4}\right] + 35 \cos\left[\frac{3\,\tau}{4}\right] + 21 \cos\left[\frac{5\,\tau}{4}\right] + 30 \cos\left[\frac{7\,\tau}{4}\right] + 10 \cos\left[\frac{9\,\tau}{4}\right] + 7 \cos\left[\frac{11\,\tau}{4}\right] + \cos\left[\frac{13\,\tau}{4}\right] + i \left(35 \sin\left[\frac{\tau}{4}\right] - 49 \sin\left[\frac{3\,\tau}{4}\right] + 2 \sin\left[\frac{5\,\tau}{4}\right] - 3 \left(12 \sin\left[\frac{7\,\tau}{4}\right] + \sin\left[\frac{9\,\tau}{4}\right] + 3 \sin\left[\frac{11\,\tau}{4}\right]\right)\right)\right)$$

Normalized Bell Correlator $2^L E(\tau)$ | L = 10 r = 2



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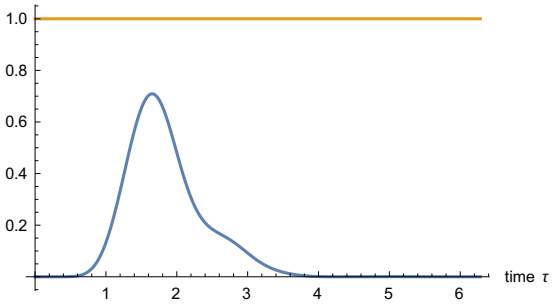
$$E(\tau) = 2^{-4\,L} |\epsilon[\tau]|^2$$

L = 10 r = 3

$$\epsilon[\tau] = 512 \sin\left[\frac{\tau}{2}\right]^5 \left(7 + 11 \cos\left[\frac{\tau}{2}\right] + 11 \cos[\tau] + 6 \cos\left[\frac{3\,\tau}{2}\right] + 3 \cos[2\,\tau] + 3\, i \sin\left[\frac{\tau}{2}\right] + 5\, i \sin[\tau] + 4\, i \sin\left[\frac{3\,\tau}{2}\right] + 2\, i \sin[2\,\tau]\right) \left(-5\, i + 17\, i \cos\left[\frac{\tau}{2}\right] - 4\, i \cos[\tau] + 17\, i \cos\left[\frac{3\,\tau}{2}\right] + i \cos[2\,\tau] + 23\, i \cos\left[\frac{5\,\tau}{2}\right] + 8\, i \cos[3\,\tau] + 7\, i \cos\left[\frac{7\,\tau}{2}\right] + 8 \sin\left[\frac{\tau}{2}\right] - 4 \sin[\tau] + 14 \sin\left[\frac{3\,\tau}{2}\right] + 3 \sin[2\,\tau] + 20 \sin\left[\frac{5\,\tau}{2}\right] + 10 \sin[3\,\tau] + 6 \sin\left[\frac{7\,\tau}{2}\right]\right)$$

Normalized Bell Correlator $2^L E(\tau)$ | L = 10 r = 3



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$$E(\tau) = 2^{-4\,L} |\epsilon[\tau]|^2$$

L = 10 r = 4

$$\epsilon[\tau] = 512 \sin\left[\frac{\tau}{2}\right]^5 \left(29 \cos\left[\frac{\tau}{2}\right] + 26 \cos[\tau] + 18 \cos\left[\frac{3\tau}{2}\right] + 11 \cos[2\tau] + 4 \cos\left[\frac{5\tau}{2}\right] + \cos[3\tau] + i \left(-16 i + 5 \sin\left[\frac{\tau}{2}\right] + 8 \sin[\tau] + 8 \sin\left[\frac{3\tau}{2}\right] + 5 \sin[2\tau] + 2 \sin\left[\frac{5\tau}{2}\right]\right)\right)$$

$$\left(-5 i + 16 i \cos\left[\frac{\tau}{2}\right] - 8 i \cos[\tau] + 13 i \cos\left[\frac{3\tau}{2}\right] + i \cos[2\tau] + 15 i \cos\left[\frac{5\tau}{2}\right] + 8 i \cos[3\tau] + 19 i \cos\left[\frac{7\tau}{2}\right] + 4 i \cos[4\tau] + i \cos\left[\frac{9\tau}{2}\right] + 2 \sin\left[\frac{\tau}{2}\right] + 2 \sin[\tau] + 2 \sin\left[\frac{3\tau}{2}\right] + 9 \sin[2\tau] + 8 \sin\left[\frac{5\tau}{2}\right] + 12 \sin[3\tau] + 16 \sin\left[\frac{7\tau}{2}\right] + 6 \sin[4\tau]\right)$$