

進捗状況

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1 エネルギー関数

1.1 $L = sL - bL$

[3](0,1,1)

[3](1,0,1)

[3](1,1,0)

| $En(v^n)$ | En | $-0.5 * W$ | $-UW$ | $-(UW - diag)$ | $-0.5 * (W - diag)$ | $UW - diag$ |
|---------------|---------|------------|---------|----------------|---------------------|-------------|
| $En(v^{n=0})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=1})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=2})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=3})$ | -1.0000 | -1.0000 | -1.0000 | -1.0000 | -1.0000 | -1.0000 |
| $En(v^{n=4})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=5})$ | -1.0000 | -1.0000 | -1.0000 | -1.0000 | -1.0000 | -1.0000 |
| $En(v^{n=6})$ | -1.0000 | -1.0000 | -1.0000 | -1.0000 | -1.0000 | -1.0000 |
| $En(v^{n=7})$ | -3.0000 | -3.0000 | -3.0000 | -3.0000 | -3.0000 | -3.0000 |

1.2 $L = sL$

[3](1,1,1)

[3](1,1,1)

[3](1,1,1)

| $En(v^n)$ | En | $-0.5 * W$ | $-UW$ | $-(UW - diag)$ | $-0.5 * (W - diag)$ | $UW - diag$ |
|---------------|---------|------------|---------|----------------|---------------------|-------------|
| $En(v^{n=0})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=1})$ | -0.5000 | -0.5000 | -1.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=2})$ | -0.5000 | -0.5000 | -1.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=3})$ | -2.0000 | -2.0000 | -3.0000 | -1.0000 | -1.0000 | -1.0000 |
| $En(v^{n=4})$ | -0.5000 | -0.5000 | -1.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=5})$ | -2.0000 | -2.0000 | -3.0000 | -1.0000 | -1.0000 | -1.0000 |
| $En(v^{n=6})$ | -2.0000 | -2.0000 | -3.0000 | -1.0000 | -1.0000 | -1.0000 |
| $En(v^{n=7})$ | -4.5000 | -4.5000 | -6.0000 | -3.0000 | -3.0000 | -3.0000 |

2 エネルギー関数

2.1 $L = L$

[3](0,1,2)

[3](10,11,12)

[3](20,21,22)

| $En(v^n)$ | En | $-.5 * W$ | $-UW$ | $-(UW - diag)$ | $-0.5 * (W - diag)$ | $UW - diag$ |
|---------------|----------|-----------|----------|----------------|---------------------|-------------|
| $En(v^{n=0})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=1})$ | -11.0000 | -11.0000 | -22.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=2})$ | -5.5000 | -5.5000 | -11.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=3})$ | -33.0000 | -33.0000 | -45.0000 | -12.0000 | -16.5000 | -12.0000 |
| $En(v^{n=4})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=5})$ | -22.0000 | -22.0000 | -24.0000 | -2.0000 | -11.0000 | -2.0000 |
| $En(v^{n=6})$ | -11.0000 | -11.0000 | -12.0000 | -1.0000 | -5.5000 | -1.0000 |
| $En(v^{n=7})$ | -49.5000 | -49.5000 | -48.0000 | -15.0000 | -33.0000 | -15.0000 |

2.2 $L = sL$

[3](0, 10, 20)

[3](10, 11, 21)

[3](20, 21, 22)

| $En(v^n)$ | En | $-.5 * W$ | $-UW$ | $-(UW - diag)$ | $-0.5 * (W - diag)$ | $UW - diag$ |
|---------------|----------|-----------|----------|----------------|---------------------|-------------|
| $En(v^{n=0})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=1})$ | -11.0000 | -11.0000 | -22.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=2})$ | -5.5000 | -5.5000 | -11.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=3})$ | -37.5000 | -37.5000 | -54.0000 | -21.0000 | -21.0000 | -21.0000 |
| $En(v^{n=4})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=5})$ | -31.0000 | -31.0000 | -42.0000 | -20.0000 | -20.0000 | -20.0000 |
| $En(v^{n=6})$ | -15.5000 | -15.5000 | -21.0000 | -10.0000 | -10.0000 | -10.0000 |
| $En(v^{n=7})$ | -67.5000 | -67.5000 | -84.0000 | -51.0000 | -51.0000 | -51.0000 |

2.3 $L = sL - bL$

[3](0,10,20)

[3](10,0,21)

[3](20,21,0)

| $En(v^n)$ | En | $-.5 * W$ | $-UW$ | $-(UW - diag)$ | $-0.5 * (W - diag)$ | $UW - diag$ |
|---------------|----------|-----------|----------|----------------|---------------------|-------------|
| $En(v^{n=0})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=1})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=2})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=3})$ | -21.0000 | -21.0000 | -21.0000 | -21.0000 | -21.0000 | -21.0000 |
| $En(v^{n=4})$ | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 | -0.0000 |
| $En(v^{n=5})$ | -20.0000 | -20.0000 | -20.0000 | -20.0000 | -20.0000 | -20.0000 |
| $En(v^{n=6})$ | -10.0000 | -10.0000 | -10.0000 | -10.0000 | -10.0000 | -10.0000 |
| $En(v^{n=7})$ | -51.0000 | -51.0000 | -51.0000 | -51.0000 | -51.0000 | -51.0000 |