```
Grundzustand:

E_num = +10.000000 .
E_num =  +9.868296  ,  E_ana =  +9.869604  ,  \psi(x=1) = -0.006541 .
E_num =  +9.869604  ,  E_ana =  +9.869604  ,  \psi(x=1) = +0.000066 .
E_num =  +9.869604  ,  E_ana =  +9.869604  ,  \psi(x=1) = +0.000000 .



1. angeregter Zustand:

E_num = +40.000000 .
E_num = +39.472958  ,  E_ana = +39.478418  ,  \psi(x=1) = +0.006539 .
E_num = +39.478417  ,  E_ana = +39.478418  ,  \psi(x=1) = -0.000069 .
E_num = +39.478418  ,  E_ana = +39.478418  ,  \psi(x=1) = -0.000000 .



2. angeregter Zustand:

E_num = +90.000000 .
E_num = +88.813303  ,  E_ana = +88.826440  ,  \psi(x=1) = -0.006537 .
E_num = +88.826438  ,  E_ana = +88.826440  ,  \psi(x=1) = +0.000074 .
E_num = +88.826440  ,  E_ana = +88.826440  ,  \psi(x=1) = +0.000000 .
```