Single precision error $(S_{up} - S_{down})$

Error

1.0e+00
1.0e-01
1.0e-02
1.0e-03
1.0e-04
1.0e-05
1.0e-06
1.0e-07
1.0e-08

10^k Terms

Double precision error $(S_{up} - S_{down})$

Error

1.0e-11
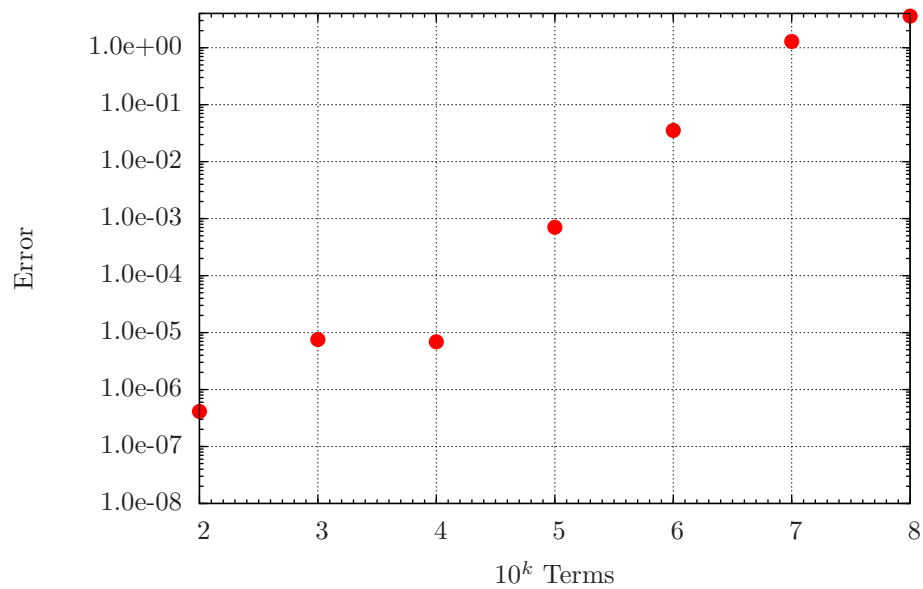1.0e-12
1.0e-13
1.0e-14
1.0e-15
1.0e-16
1.0e-17

10^k Terms

Single precision S_{up} error

Single precision S_{down} error

Single precision error for alternating series

Double precision error for alternating series