**Run 1**

A test run to learn about the code. 1 parameter dark soliton.

**Run 2**

A test run to learn about the code. 1 parameter dark soliton.

**Run 3**

A test run to learn about courant values. 1 parameter dark soliton.

**Run 4**

A run to reproduce figure 4 in the magnetic hole formation paper. 1 parameter dark soliton.

**Run 5**

A redo of run 4 out to a longer total time. 1 parameter dark soliton.

**Run 6**

A run to reproduce figure 3 in the magnetic hole formation paper. 1 parameter bright soliton.

**Run 7**

A redo of run 4. EV and energy values were tracked this time.

**Run 8**

A run to reproduce figure 4 in the magnetic hole formation paper with an updated dissipation value. 1 parameter dark soliton.

**Run 9**

A redo of run 6 with updated dissipation. Energy values were tracked this time.

**Run 10**

A run to reproduce figure 2 in magnetic hole formation paper. 2p soliton.

**Run 11**

A redo of run 9 out to 0.5 seconds to get more data on eigenvalues.

**Run 12**

A redo of run 9 out to 3 seconds with more lines to get eigenvalues.