**Induction ILDs** Name pd

The horizontal axis is **time** for these graphs, and the data logger reads a **positive** voltage when current goes up the front of the coil

|  |  |  |
| --- | --- | --- |
| **What the demo is** | **My initial prediction** | **What the actual result was** |
| The North pole of a magnet rapidly approaches from the left side of the coil, then slowly recedes. |  |  |
| The South pole of a magnet slowly approaches the coil from the left side, pauses, and then quickly keeps going in the same direction and goes all the way through the coil. |  |  |
| The North pole of a magnet quickly approaches from the right side of the coil, pauses, and then slowly exits the coil continuing in the same direction |  |  |

The horizontal axis is **time** for these graphs, and the data logger reads a **positive** voltage when current goes to the **right** on the front of the coil.

|  |  |  |
| --- | --- | --- |
| **What the demo is** | **My initial prediction** | **What the actual result was** |
| The magnet falls through the coil with the North pole facing down. |  |  |
| The magnet falls through the coil with the South pole facing down |  |  |
| The magnet is North pole upwards. It is thrown from below the coil, and caught after it has exited the coil on the top. |  |  |
| The North pole is upwards. It is thrown from below the coil. It goes above the coil, stops momentarily, and then falls back down through the coil. |  |  |