Non-Conservative Fields

What is going on here?

Two Volt Meters
Measuring between the same two points
show very different readings

A Trick?

No; but sometimes what you measure depends
on where you stand
[or, more precisely, what path your wires take!]

Here's the Circuit

(flux dB/dt ≠ 0 So neither is E•dl, closed loop and Kirchoff not withstanding;
the “voltage difference” depends on what path you choose to walk)