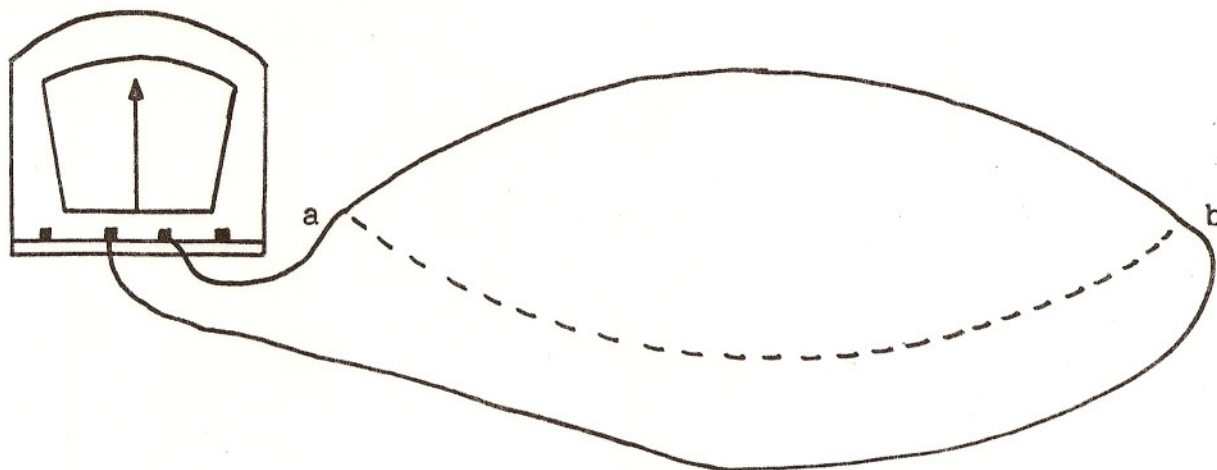


galvanometer: E-2, S-2

wire: E-4, S-2



Connect the ends of the wire to the galvanometer (terminals VG and GS). With the assistance of a student, twirl the wire as you would a jump-rope. An alternating deflection of the galvanometer needle can be observed. The effect is greatest when a very large loop is twirled very slowly with the line ab oriented east-west. Some comment about energy shortages versus child labor laws may provoke humor.

This demonstration is very effective in combination with EH-6 and/or EH-7. The wire may be passed between the poles of a powerful permanent magnet or wrapped several times around a paper towel tube for insertion of a bar magnet.