A signal can be transmitted between two loops of wire, one connected to a radio and one connected to a speaker.

The current in LOOP 1 creates a magnetic field that goes through LOOP 2.

The changing magnetic field then induces an opposing current in LOOP 2. This creates the sound we hear!

TRY IT YOURSELF!

- Turn on the CD player and make sure it's connected to the first loop. Connect the second loop to the speaker.
- Put the loops close together, facing each other.
- Put the loops close together, not facing each other.
- Bring the loops far apart.
- Place something between the loops.
- Try something we haven't thought of.

Can you hear the music?