



Electromagnetic waves (radio waves) produced by a “radio tower” also traverse the room. If these waves are at a frequency of 385 MHz, their wavelengths would also be 0.78m, producing an interference pattern similar to that of the acoustic field. Visitors can detect spatially varying signal strengths, in three dimensions, through hand-held devices (receivers), analogous to their own ears in the case of the acoustic field. The two-dimensional radio wave intensity pattern (not necessarily the same as the sound intensity pattern) could be visually displayed on the ceiling. Again, the positioning of the movable obstacles and the visitors would affect the radio signal intensity pattern. Visitors would experience radio signals carried by radio waves as analogous to the acoustic waves carrying the sound.