

FIG. 4. 7.—3-dimensional viewgraph displaying how the magnetic field evolves under the locally enhanced resistivity. Red, blue, light blue, green, and yellow lines represent the magnetic field lines at different positions; red line initially lies far from the neutral line (y -axis) so that its tilt against the vertical direction is weak, while light blue, green, and yellow lines initially lie near the neutral line so that their tilts are strong. Blue line is initially set to be just above the neutral line so that its direction is completely horizontal. Note that although the colors of field lines are common at different times, such field lines have no relation with each other. A color map displayed at the base represents the temperature. Elapsed times are $t = 0$ (top-left), 4 (top-right), 8 (bottom-left), and 12 (bottom-right).

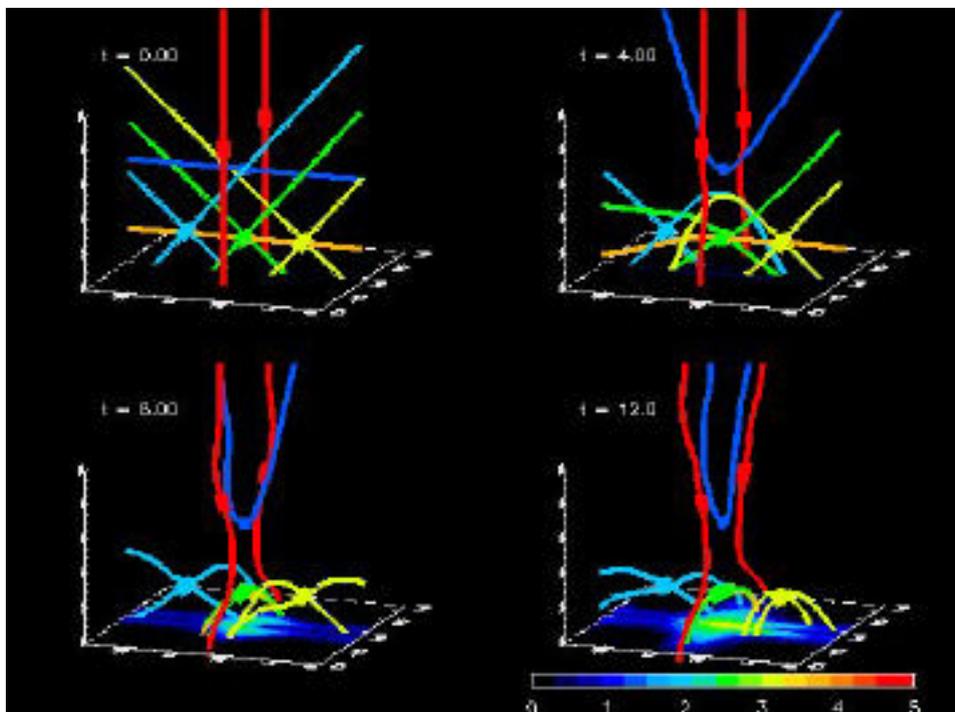


FIG. 4. 8.—Same as Figure 4. 7 apart from a different viewing angle.