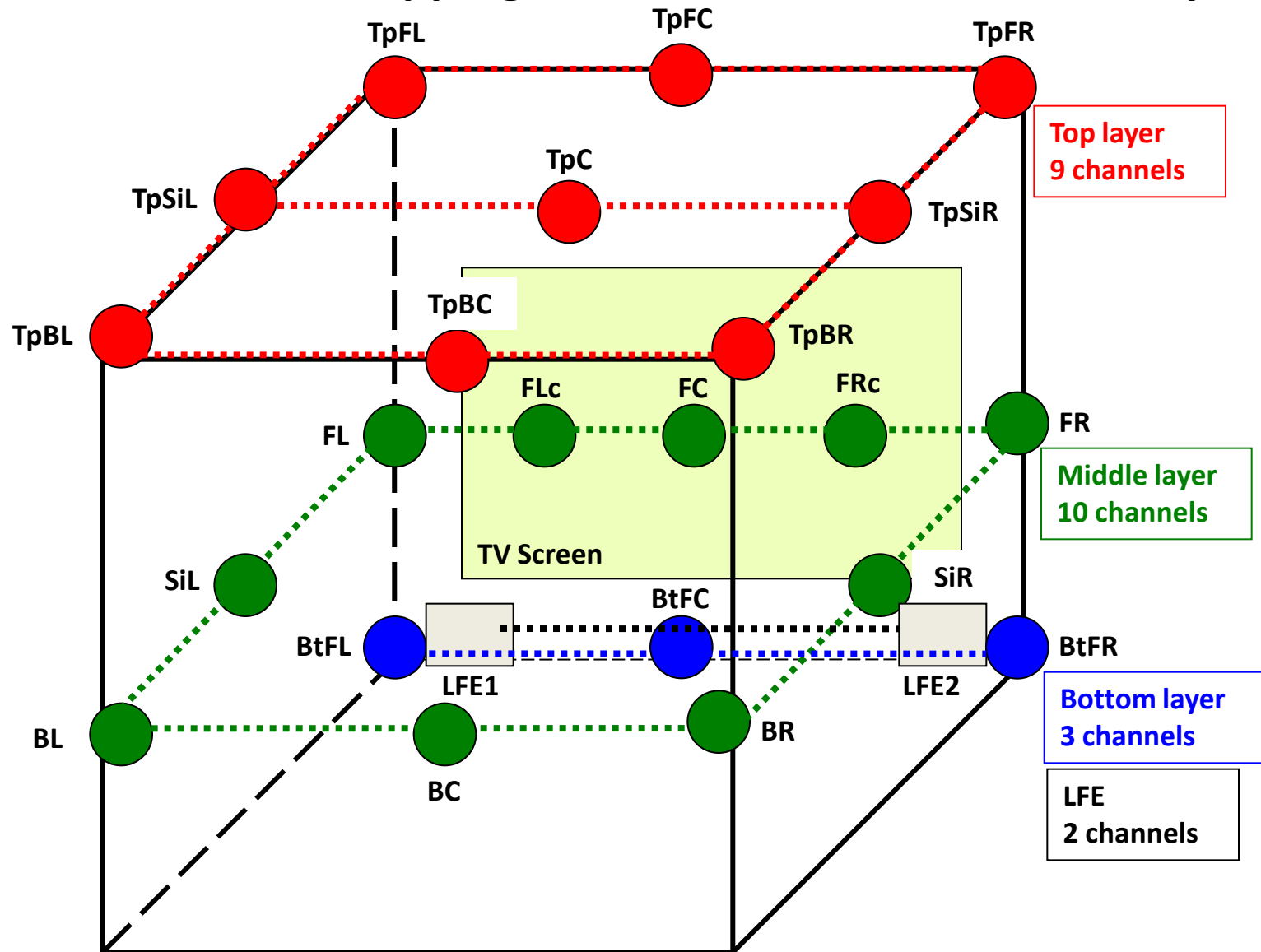
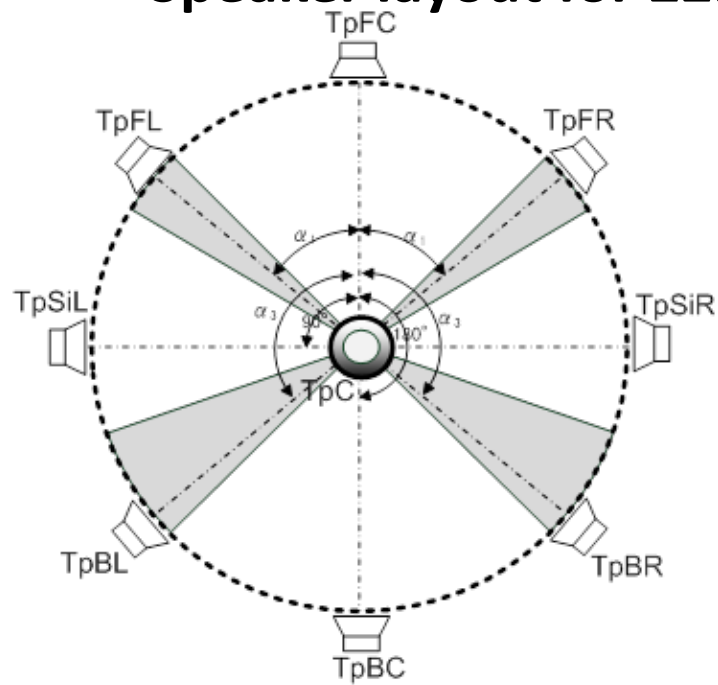


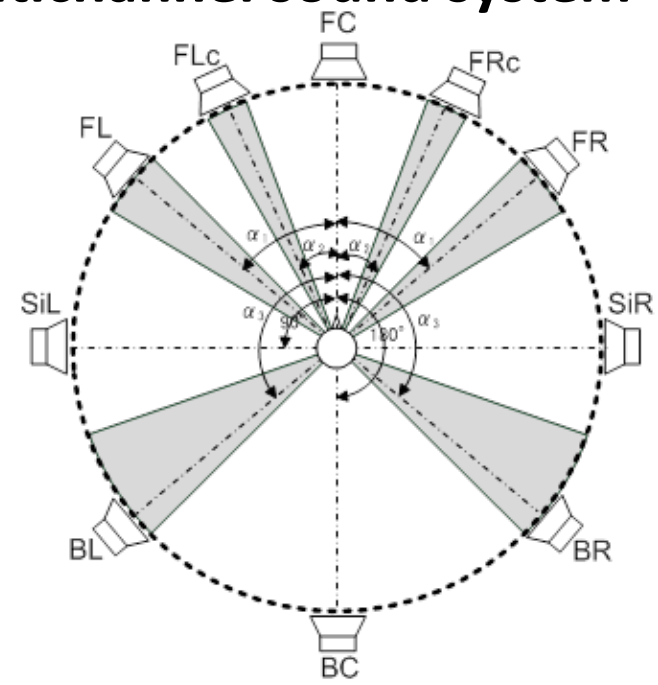
Channel label and mapping for 22.2 multichannel sound system



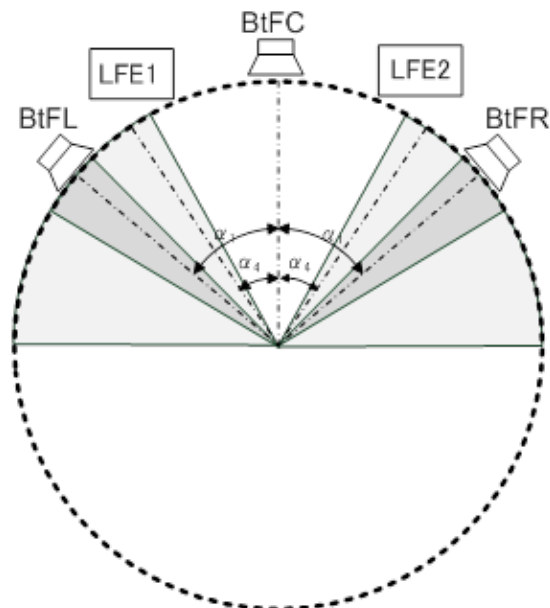
Speaker layout for 22.2 multichannel sound system



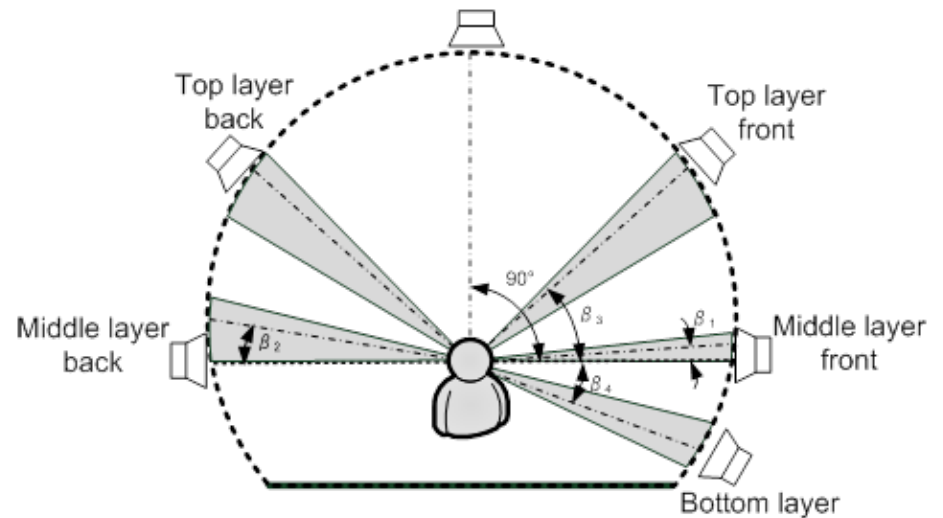
Top layer



Middle layer



Bottom layer



Vertical layout

Channel name and speaker position for 22.2 multichannel sound system

Channel label	Channel name	Speaker position	
		Azimuth angle	Elevation angle
FL, FR	Front left, Front right	$\pm (45^\circ - 60^\circ (\alpha_1))$	$0^\circ - 5^\circ (\beta_1)$
FC	Front centre	0°	$0^\circ - 5^\circ (\beta_1)$
FLc, FRc	Front left centre, Front right centre	$\pm (\alpha_1/2 (\alpha_2))$	$0^\circ - 5^\circ (\beta_1)$
SiL, SiR	Side left, Side right	$\pm 90^\circ$	$0^\circ - 15^\circ (\beta_2)$
BL, BR	Back left, Back right	$\pm (110^\circ - 135^\circ (\alpha_3))$	$0^\circ - 15^\circ (\beta_2)$
BC	Back centre	180°	$0^\circ - 15^\circ (\beta_2)$
TpFL, TpFR	Top front left, Top front right	$\pm (45^\circ - 60^\circ (\alpha_1))$	$30^\circ - 45^\circ (\beta_3)$
TpFC	Top front centre	0°	$30^\circ - 45^\circ (\beta_3)$
TpSiL, TpSiR	Top side left, Top side right	$\pm 90^\circ$	$30^\circ - 45^\circ (\beta_3)$
TpBL, TpBR	Top back left, Top back right	$\pm (110^\circ - 135^\circ (\alpha_3))$	$30^\circ - 45^\circ (\beta_3)$
TpBC	Top back centre	180°	$30^\circ - 45^\circ (\beta_3)$
TpC	Top centre	N/A	90°
BtFL, BtFR	Bottom front left, Bottom front right	$\pm (45^\circ - 60^\circ (\alpha_1))$	$-15^\circ - -30^\circ (\beta_4)$
BtFC	Bottom front centre	0°	$-15^\circ - -30^\circ (\beta_4)$
LFE1, LFE2	LFE1, LFE2	$\pm (30^\circ - 90^\circ (\alpha_4))$	$-15^\circ - -30^\circ (\beta_4)$