Figures 12.1-12.6 show the geometric relationships between the left ventricle and the mitral valve components for hearts H1-H6. The view is from the right fibrous trigone towards the left fibrous trigone, *i.e.*, from the posterior wall of the LV towards the anterior wall. The best fit anterior leaflet plane is clamped to the X-Y axis for both the top frame (maximum LV inflow) and the bottom frame (maximum left ventricular pressure). LV markers #1-4 and #8-13 are subepicardial; septal markers #5-7 are endocardial. The outflow tract is at lower right in each figure.
Figure 12.1. LV-mitral valve relationship for heart H1. Top frame=Peak LV Inflow; Bottom Frame=LVPmax. View: from RFT to LFT. Best-fit anterior leaflet plane clamped to X-Y axis. Longitudinal Lateral (top)-Septal (bottom) LV (red), Longitudinal Anterior-Posterior LV (blue), Chordae from Anterior and Posterior Papillary tips (black), Central Posterior Leaflet (green), Mitral Annulus (black). Anterior Mitral Leaflet (color coded from blue, below, to red, above, best fit leaflet plane), Marker Sites (filled black circles), LV Basal, Equatorial, Apical cross-sections (black hoops), Outflow Tract, lower right. Scale in mm.
Figure 12.3. LV-mitral valve relationship for heart H3. Top frame=Peak LV Inflow; Bottom Frame=LVPmax. View: from RFT to LFT. Best-fit anterior leaflet plane clamped to X-Y axis. Longitudinal Lateral (top)-Septal (bottom) LV (red); Longitudinal Anterior-Posterior LV (blue). Chordae from Anterior and Posterior Papillary tips (black). Central Posterior Leaflet (green). Mitral Annulus (black). Anterior Mitral Leaflet (color coded from blue, below, to red, above, best fit leaflet plane). Marker Sites (filled black circles). LV Basal, Equatorial, Apical cross-sections (black hoops). Outflow Tract, lower right. Scale in mm.
Figure 12.4. LV-mitral valve relationship for heart H4. Top frame=Peak LV Inflow; Bottom Frame=LVPmax. View: from RFT to LFT. Best-fit anterior leaflet plane clamped to X-Y axis. Longitudinal Lateral (top)-Septal (bottom) LV (red); Longitudinal Anterior-Posterior LV (blue). Chordae from Anterior and Posterior Papillary tips (black). Central Posterior Leaflet (green). Mitral Annulus (black). Anterior Mitral Leaflet (color coded from blue, below, to red, above, best fit leaflet plane). Marker Sites (filled black circles). LV Basal, Equatorial, Apical cross-sections (black hoops). Outflow Tract, lower right. Scale in mm.
Figure 12.5. LV-mitral valve relationship for heart H5. Top frame=Peak LV Inflow; Bottom Frame=LVPmax. View: from RFT to LFT. Best-fit anterior leaflet plane clamped to X-Y axis. Longitudinal Lateral (top)-Septal (bottom) LV (red); Longitudinal Anterior-Posterior LV (blue). Chordae from Anterior and Posterior Papillary tips (black). Central Posterior Leaflet (green). Mitral Annulus (black). Anterior Mitral Leaflet (color coded from blue, below, to red, above, best fit leaflet plane). Marker Sites (filled black circles). LV Basal, Equatorial, Apical cross-sections (black hoops). Outflow Tract, lower right. Scale in mm.