

## Movie Captions on “Flow structures in spanwise rotating plane Poiseuille flow based on thermal analogy” by Zhang, Xia, and Chen

Movie 1: Contour of  $u'$  in the  $y - z$  plane from the 2-D case at  $Re_\tau = 180, Ro_\tau = 5$ . The dashed and dash-dotted lines denote the horizontal locations at  $y = y_1$  and  $y = y_2$  with  $N_b(y_1) = 0.1N_b(-1)$  and  $N_b(y_2) = 0.1N_b(1)$  respectively.

Movie 2: Contour of  $u'$  in the  $y - z$  plane from the 2-D case at  $Re_\tau = 180, Ro_\tau = 40$ . The dashed and dash-dotted lines denote the horizontal locations at  $y = y_1$  and  $y = y_2$  with  $N_b(y_1) = 0.1N_b(-1)$  and  $N_b(y_2) = 0.1N_b(1)$  respectively.

Movie 3: Contour of  $u'$  in the  $y - z$  plane at  $x = 0$  from the 3-D case at  $Re_\tau = 180, Ro_\tau = 5$ . The dashed and dash-dotted lines denote the horizontal locations at  $y = y_1$  and  $y = y_2$  with  $N_b(y_1) = 0.1N_b(-1)$  and  $N_b(y_2) = 0.1N_b(1)$  respectively.

Movie 4: Contour of  $u'$  in the  $y - z$  plane at  $x = 0$  from the 3-D case at  $Re_\tau = 180, Ro_\tau = 40$ . The dashed and dash-dotted lines denote the horizontal locations at  $y = y_1$  and  $y = y_2$  with  $N_b(y_1) = 0.1N_b(-1)$  and  $N_b(y_2) = 0.1N_b(1)$  respectively.