

**Supplementary Material for “Enhancing large-scale motions  
and turbulent transport in rotating plane Poiseuille flow”**

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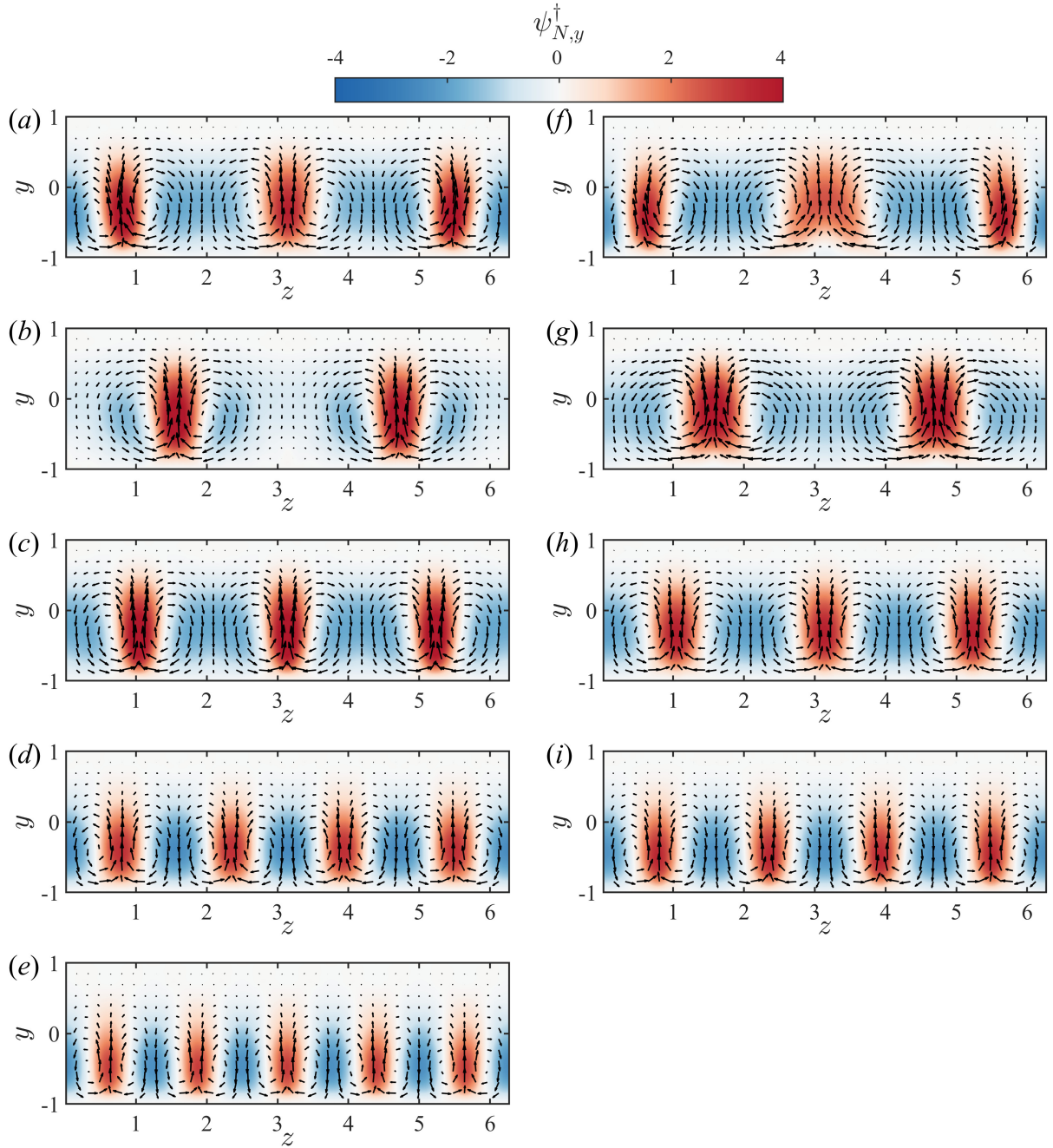


Figure 1: Velocity vectors in the  $y - z$  plane and contours of the wall-normal component of cluster centroids at  $Ro_\tau = 5$ : (a-e) R5J3B, clusters  $C_1^\dagger - C_5^\dagger$ ; (f-i) R5J4B, clusters  $C_1^\dagger - C_4^\dagger$ .

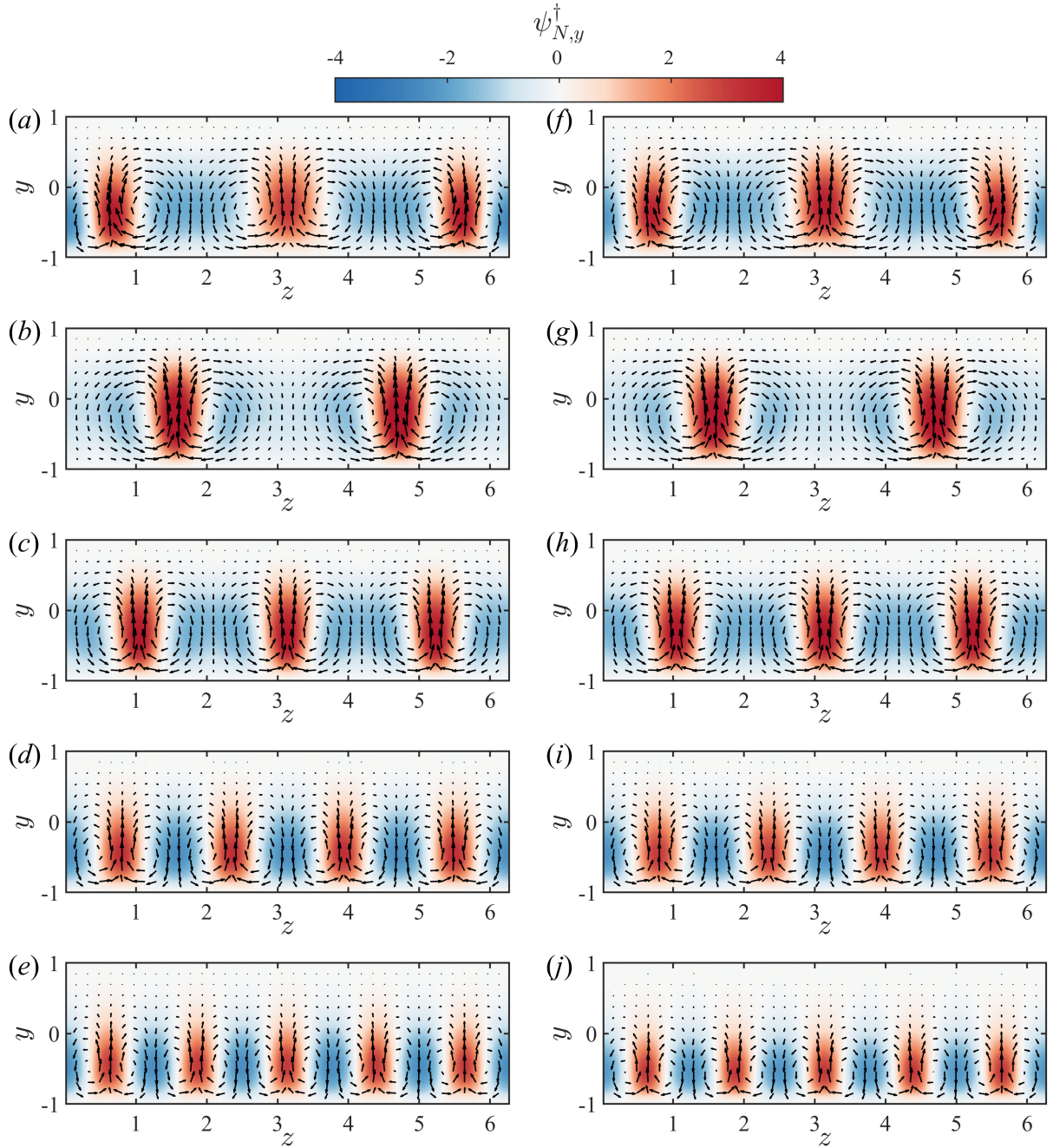


Figure 2: Velocity vectors in the  $y - z$  plane and contours of the wall-normal component of cluster centroids at  $Ro_\tau = 5$ : (a-e) R5J2T, clusters  $C_1^\dagger - C_5^\dagger$ ; (f-j) R5J3T, clusters  $C_1^\dagger - C_5^\dagger$ .

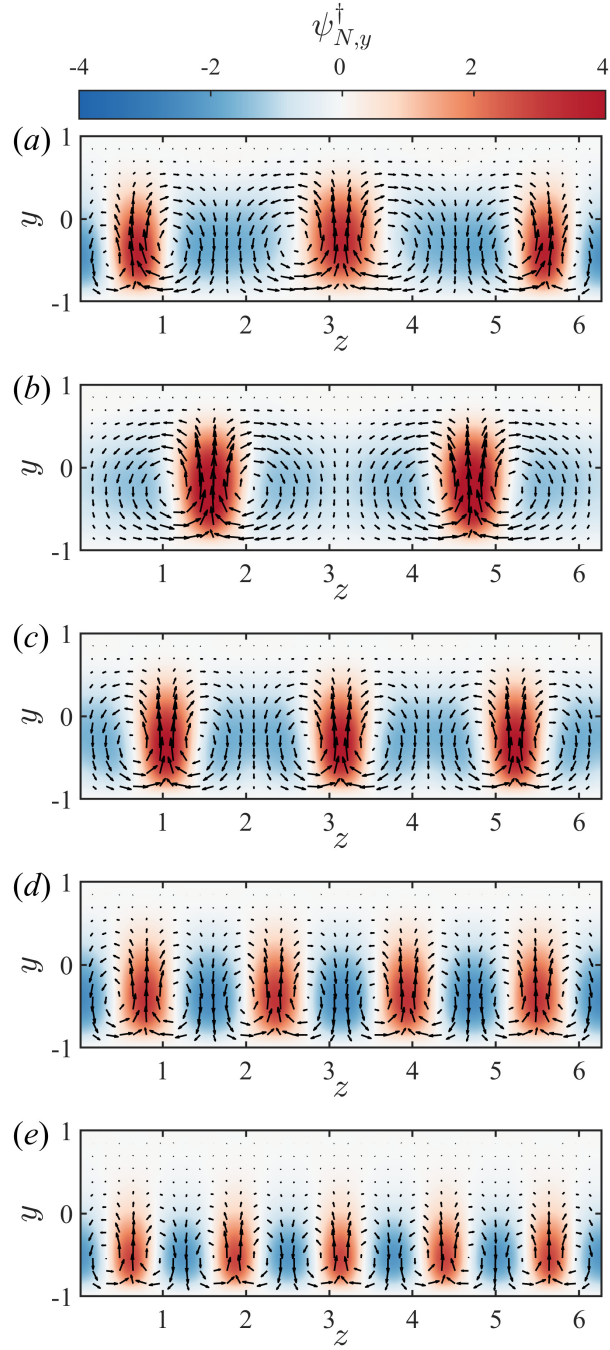


Figure 3: Velocity vectors in the  $y-z$  plane and contours of the wall-normal component of cluster centroids at  $Ro_\tau = 5$ : (a-e) R5J4T, clusters  $C_1^\dagger - C_5^\dagger$ .