7 Results from $Re_\tau = 950$

Grid TUM DNS: $768 \times 768 \times 384$, LES: 128^3
first grid point TUM DNS: $y^+ = 1$, LES: $y^+ = 3$

Reference data ('Alamo DNS'):
http://torroja.dmt.upm.es/ftp/channels/data/

See also

- S. Hoyas and J. Jimenez, (2008) Phys. Fluids 20, 101511.
- J. Jimenez and S. Hoyas, (2008) J. Fluid Mech. 611, pp. 215-236.
- S. Hoyas and J. Jimenez, (2006) Phys. Fluids 18, 011702.
- J. C. del Alamo, J. Jimenez, P. Zandonade and R. D. Moser (2004) J. Fluid Mech. 500, pp 135-144.
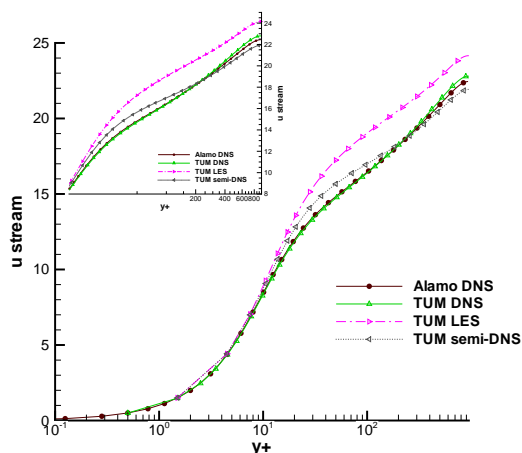- J. C. del Alamo and J. Jimenez (2003) Phys. Fluids Vol. 15 (6), pp L41-L44.

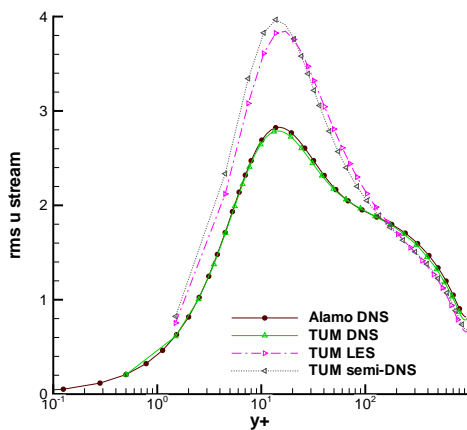Figure 67: Mean streamwise fluid velocity

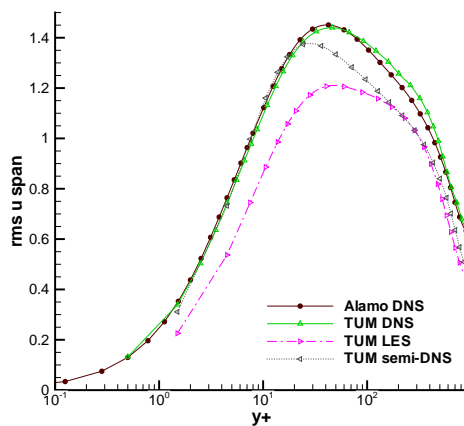Figure 68: rms of fluid velocity fluctuations (streamwise)

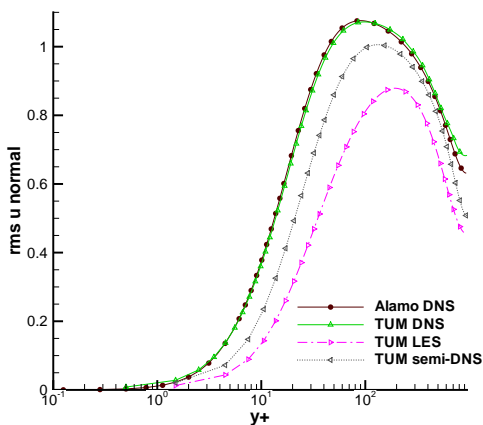Figure 69: rms of fluid velocity fluctuations (spanwise)

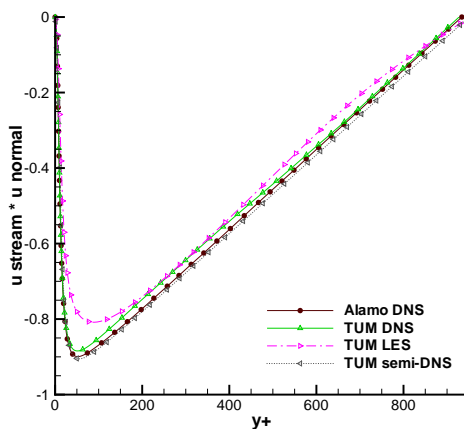Figure 70: rms of fluid velocity fluctuations (wallnormal)

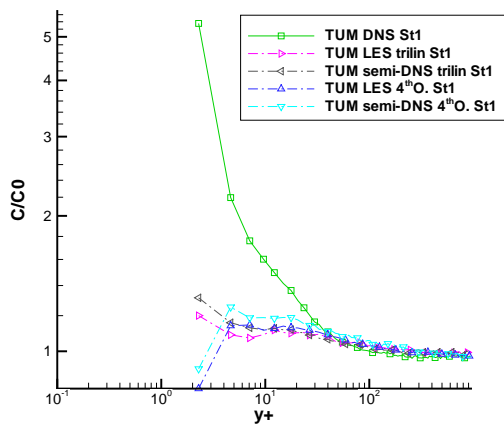Figure 71: Fluid Reynolds stress: streamwise/wallnormal component

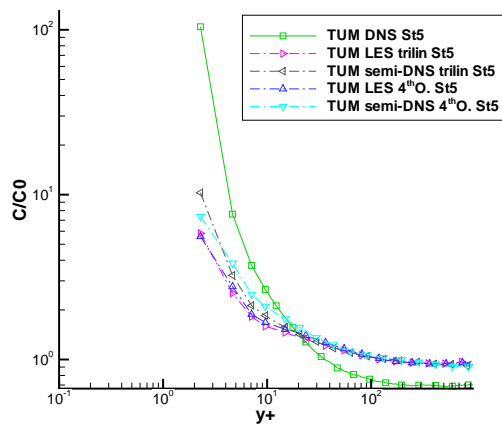Figure 72: Time-averaged particle concentration profile between $t^+ = 16000$ and $t^+ = 20000$, $St = 1$.

Figure 73: Time-averaged particle concentration profile between $t^+ = 16000$ and $t^+ = 20000$, $St = 5$.

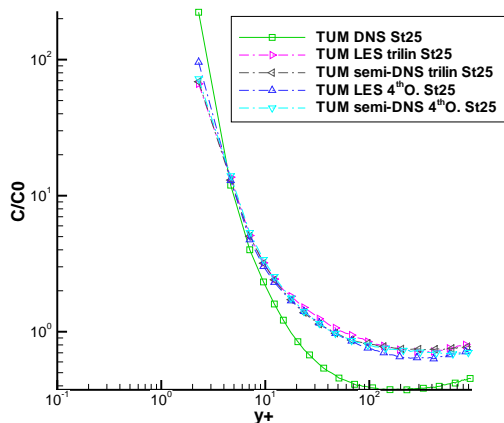Figure 74: Time-averaged particle concentration profile between $t^+ = 16000$ and $t^+ = 20000$, $St = 25$.
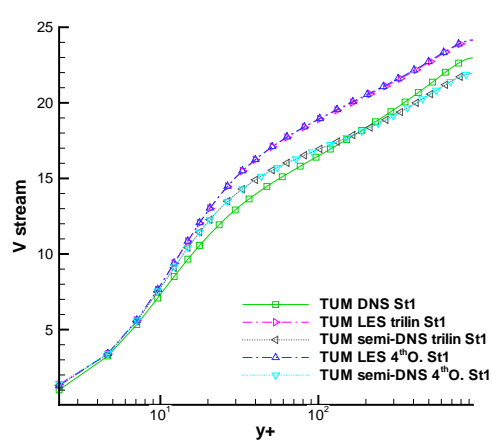

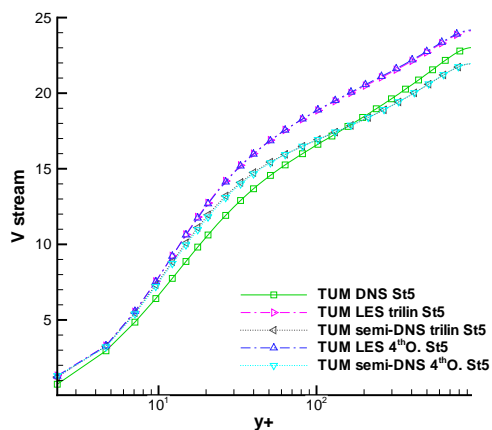Figure 75: Average streamwise particle velocity, $St = 1$

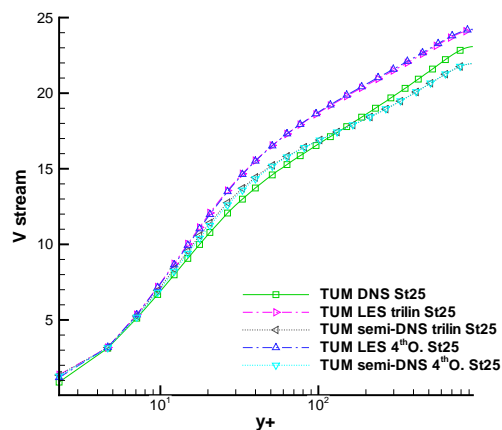Figure 76: Average streamwise particle velocity, $St = 5$

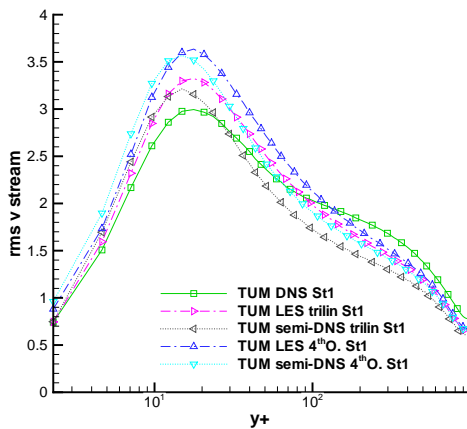Figure 77: Average streamwise particle velocity, $St = 25$

Figure 78: rms of particle streamwise velocity fluctuations, $St = 1$
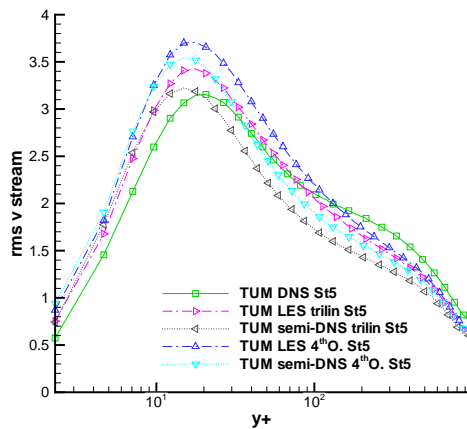

Figure 79: rms of particle streamwise velocity fluctuations, $St = 5$
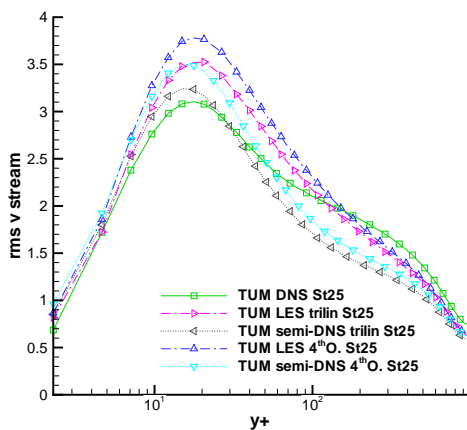

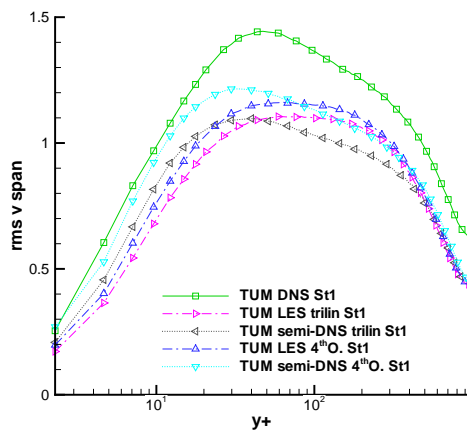Figure 80: rms of particle streamwise velocity fluctuations, $St = 25$

Figure 81: rms of particle spanwise velocity fluctuations, $St = 1$
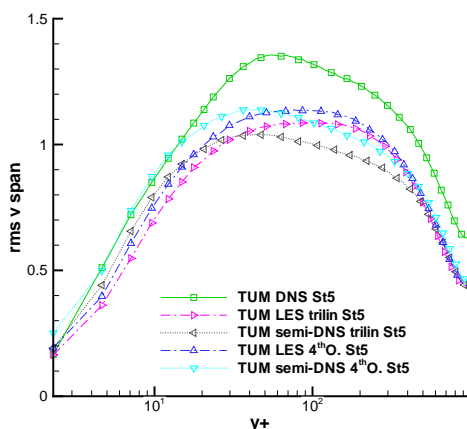

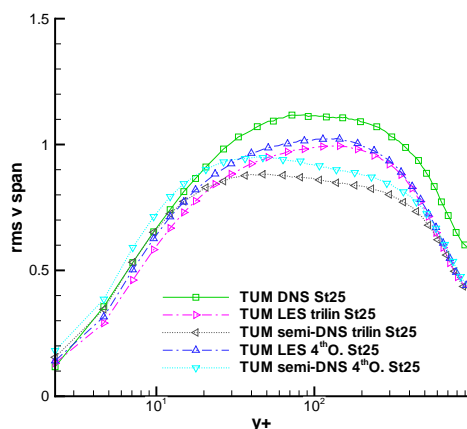Figure 82: rms of particle spanwise velocity fluctuations, $St = 5$

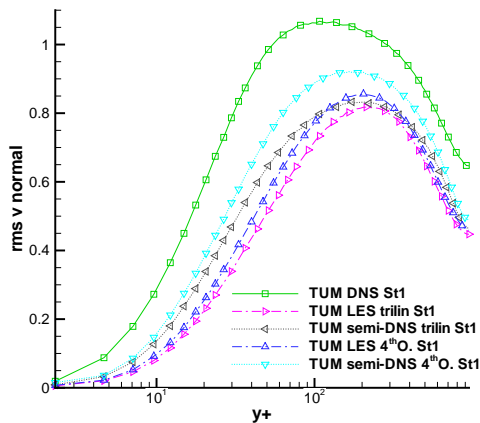Figure 83: rms of particle spanwise velocity fluctuations, $St = 25$

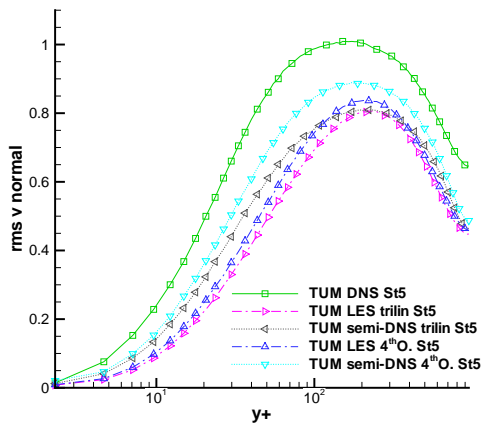Figure 84: rms of particle wall-normal velocity fluctuations, $St = 1$

Figure 85: rms of particle wall-normal velocity fluctuations, $St = 5$
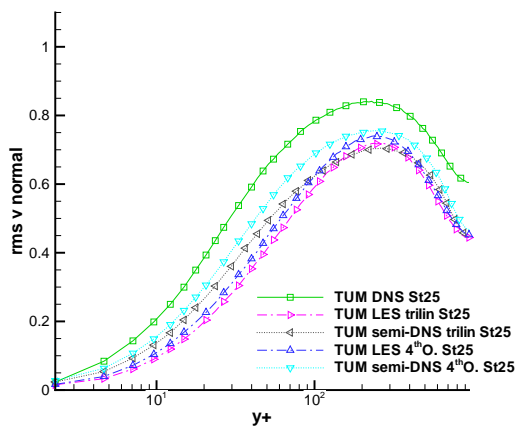

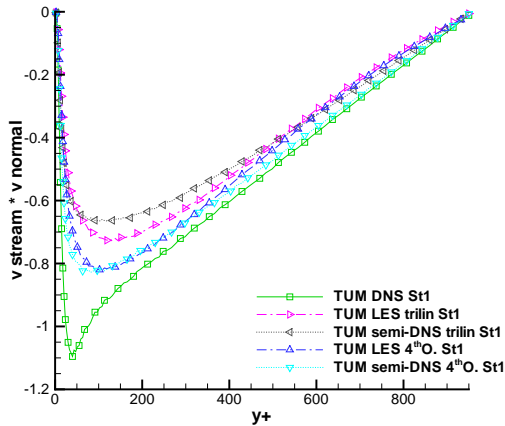Figure 86: rms of particle wall-normal velocity fluctuations, $St = 25$

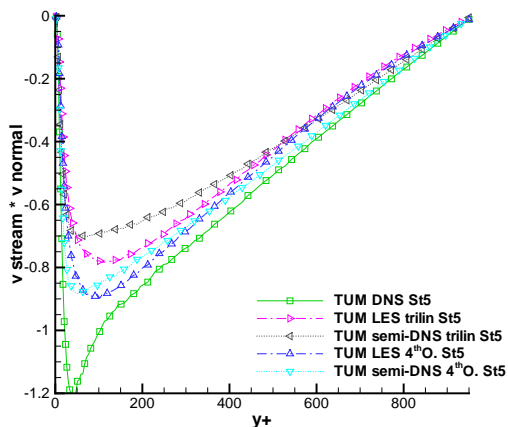Figure 87: particle Reynolds stresses, streamwise/wall-normal component, $St = 1$

Figure 88: particle Reynolds stresses, streamwise/wall-normal component, $St = 5$
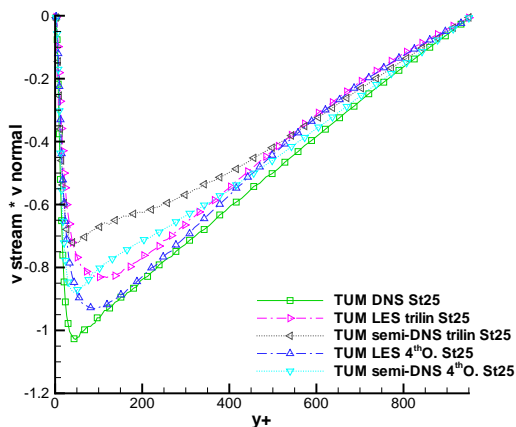

Figure 89: particle Reynolds stresses, streamwise/wall-normal component, $St = 25$