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ELEVENTH SYMPOSIUM ON

**turbulent  
shear  
flows**

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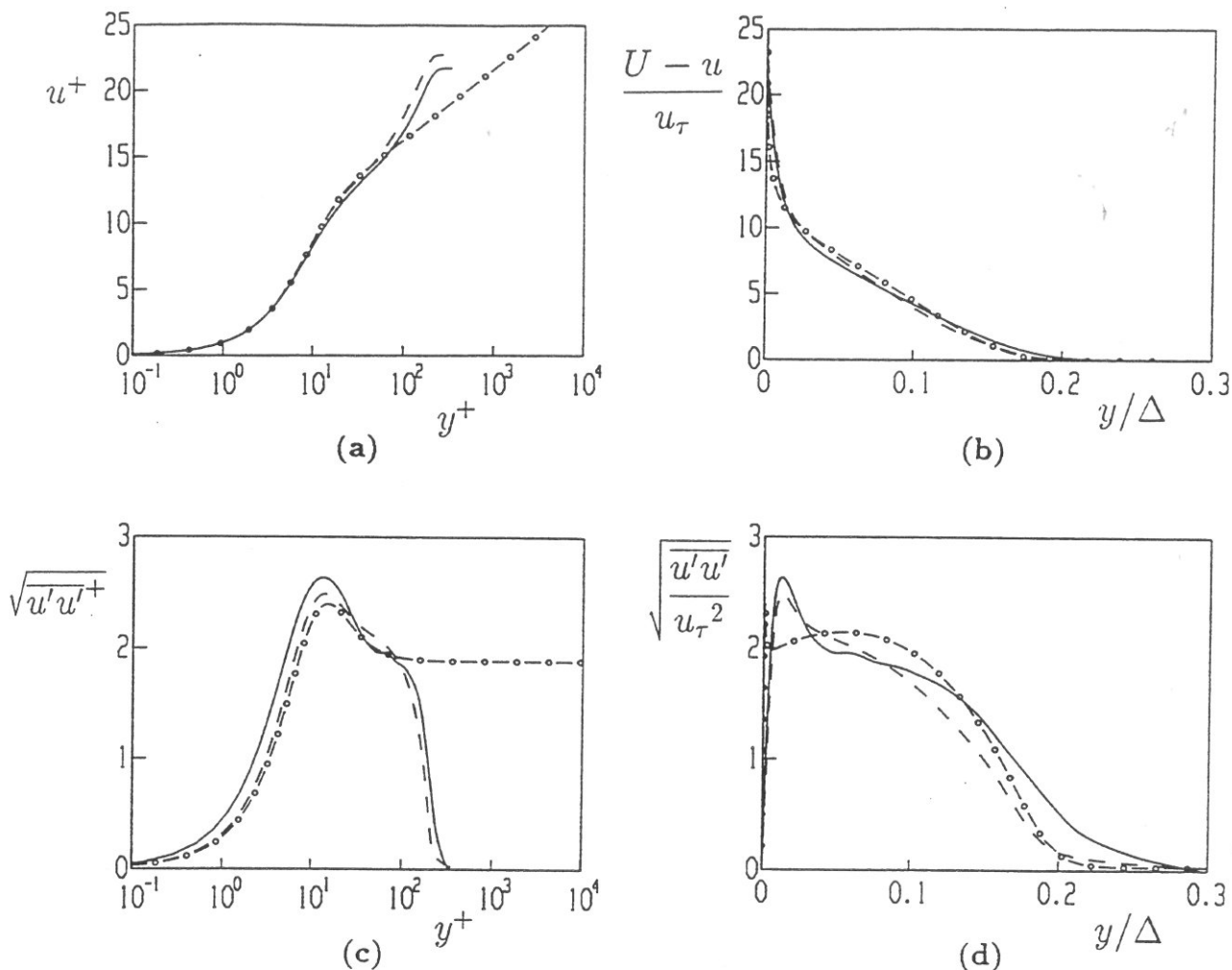


Figure 5: Comparison for  $\beta \approx 0.65$ ; — DNS at  $Re_\theta = 670$ ; - - DRSM at  $Re_\theta = 670$ ; -o- similarity solution for the DRSM. Streamwise velocity in (a) inner-layer scalings, and (b) outer-layer scalings. Streamwise normal stress in (c) inner-layer scalings and (d) outer-layer scalings.

verse pressure gradients, where it considerably overpredicts the wall-shear stress. The DRSM was also compared with our new DNS for  $\beta \approx 0.25$  and  $0.65$  at the relatively low Reynolds number  $Re_\theta = 670$ . It turns out that the DRSM correctly predicts the low-Reynolds-number effects for the evolution of the boundary layer to its high- $Re$  similarity solution.

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