
ELEVENTH SYMPOSIUM ON

**turbulent
shear
flows**

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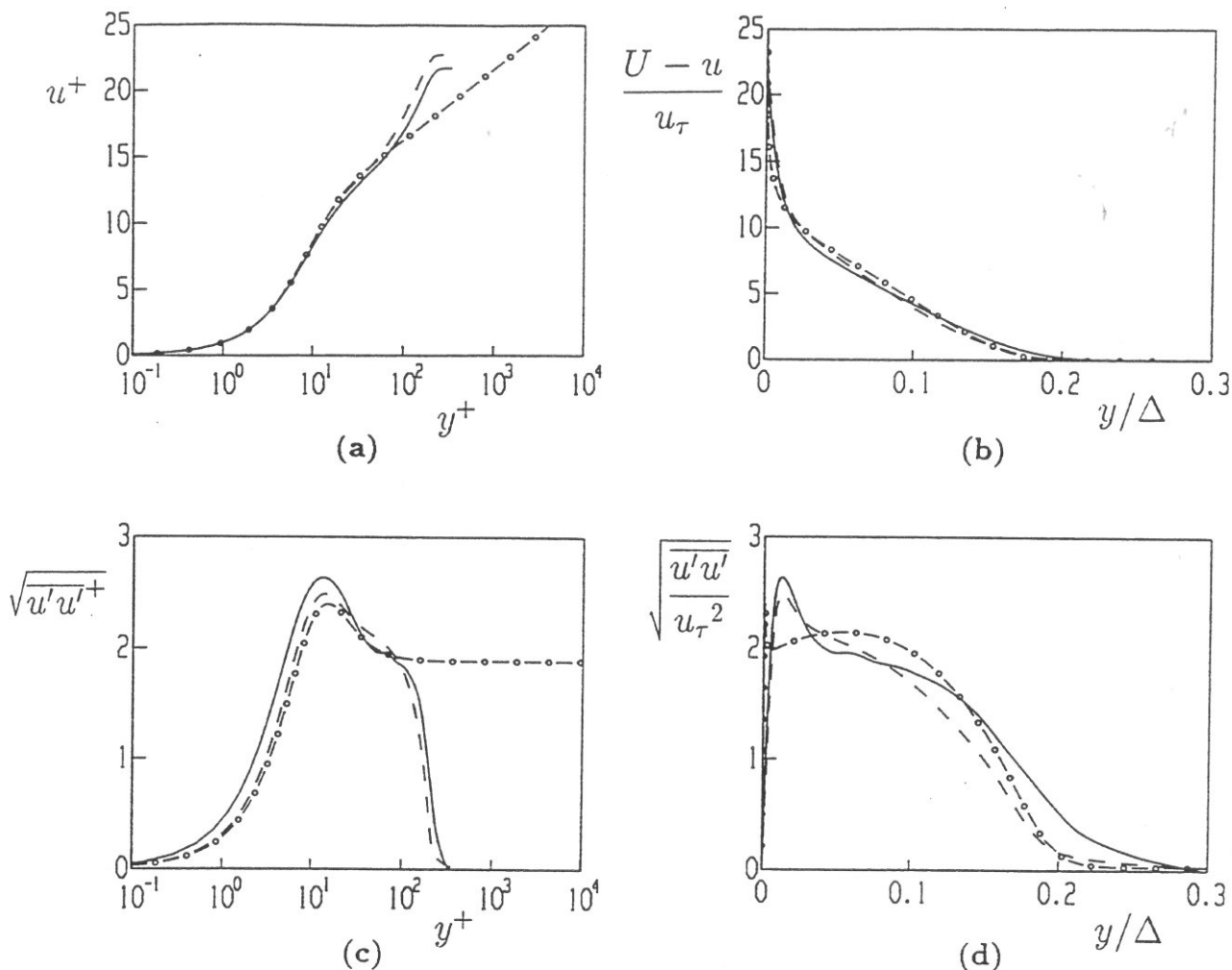


Figure 5: Comparison for $\beta \approx 0.65$; — DNS at $Re_\theta = 670$; - - DRSM at $Re_\theta = 670$; -o- similarity solution for the DRSM. Streamwise velocity in (a) inner-layer scalings, and (b) outer-layer scalings. Streamwise normal stress in (c) inner-layer scalings and (d) outer-layer scalings.

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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