Application of vortex identification schemes to DNS data of transitional boundary layer[1] BRIAN PIERCE, PARVIZ MOIN, TARANEH SAYADI, Stanford University, Center for Turbulence Research — We have demonstrated how various vortex identification and visualization criteria perform using DNS data from a transitional and turbulent boundary layer by Sayadi et al. (submitted to J. Fluid Mech.). The presence of well-known Λ vortices in the transitional region provides a well defined and yet realistic benchmark for evaluation of various criteria. We investigate the impact of changing the threshold used for iso-surface plotting.

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