Thermal stratification of Atmospheric Boundary Layer and Wind Turbine wake characteristics

A. Goals: Optimization of turbine array

B. Brief Description:
 There are three instability of Atmospheric boundary layer. Now I am working with only unstable case. I am comparing turbulence budget of atmospheric boundary layer with turbine and without turbine

C. Heights of Achievements this semester (using bullets):
 * Shear production
 * Buoyancy production
 * Comparism of turbulence statistics

SiVIRT

UTSA

Thermal stratification of Atmospheric Boundary Layer and Wind Turbine wake characteristics