Mixed Convection from Vertical Plate, 1mm Roughness, $\Delta T=11K$

$\frac{Nu}{Pr^{1/3}}$ vs $Re$

- Mixed Exp. Uncertainty
- Measured
  - Measured over time split into 4 intervals
  - Forced Turbulent
  - Laminar Asymptote

$Re=3552$
20180617T013927Z - mixed Convection - Roughness=1.00mm; T=17.0+10.4°C; +0.00°
k=0.0258, Ra_V=29598541, h=3.41W/(K.m^2), U=0.317W/K, Nu=40.3, Pr=0.709
20180619T123939Z - mixed Convection - Roughness=1.00mm; T=17.4±10.4°C; +0.00°
34±4r/min, V=0.123m/s, Re=2440, Ra_V=28952995, h=3.82W/(K.m²), U=0.356W/K, Nu=45.2
20180620T015700Z - mixed Convection - Roughness=1.00mm; T=16.7+10.2°C; +0.00°
41±3r/min, V=0.148m/s, Re=2973, Ra_V=28955803, h=3.86W/(K.m²), U=0.359W/K, Nu=45.6
20180619T153646Z - mixed Convection - Roughness=1.00mm; T=17.7\pm10.2^\circ C; +0.00^\circ C
58\pm3r/min, V=0.210m/s, Re=4164, Ra_V=28220241, h=4.09W/(K.m^2), U=0.381W/K, Nu=48.3
20180618T002829Z - mixed Convection - Roughness=1.00mm; T=16.6+10.2°C; +0.00°
160±1r/min, V=0.573m/s, Re=11562, Ra_V=29119634, h=7.04W/(K.m²), U=0.655W/K, Nu=83.4
20180617T23249Z - mixed Convection - Roughness=1.00mm; T=16.0+10.9°C; +0.00°
226±2r/min, V=0.808m/s, Re=16313, Ra_V=31208784, h=9.01W/(K.m²), U=0.838W/K, Nu=106.8
20180617T201351Z - mixed Convection - Roughness=1.00mm; T=17.3±10.2°C; +0.00°
320±1r/min, V=1.138m/s, Re=22876, Ra_V=28958172, h=12.3W/(K.m²), U=1.14W/K, Nu=145.0
20180617T182712Z - mixed Convection - Roughness=1.00mm; T=17.2+10.1°C; +0.00°
465±14r/min, V=1.637m/s, Re=32924, Ra_V=28788837, h=16.0W/(K.m^2), U=1.49W/K, Nu=188.9
20180617T163658Z - mixed Convection - Roughness=1.00mm; T=17.2+10.0°C; +0.00°
640±4r/min, V=2.211m/s, Re=44486, Ra_V=28443052, h=20.5W/(K.m²), U=1.90W/K, Nu=242.1
20180617T124722Z - mixed Convection - Roughness=1.00mm; T=17.0+09.7°C; +0.00°
1280±1r/min, V=3.993m/s, Re=80563, Ra_V=27771863, h=32.4W/(K.m²), U=3.01W/K, Nu=383.5
20180617T033137Z - mixed Convection - Roughness=1.00mm; T=17.1+09.6°C; +0.00°
1500±5r/min, V=4.478m/s, Re=90093, Ra_V=27319614, h=36.3W/(K.m²), U=3.38W/K, Nu=430.2