# HOW TO ADDRESS NEED FOR TEMPERATURE

## Need Temperature:

Have $v$ from LAMS

$$\chi(v,T)=\left\{\left(\frac{v^2}{2c_pT}+1\right)^{c_p/R_a}-1\right\}$$

- Not very sensitive: Fractional error in $T$ is small
- Use available-processed $T$ as the first approximation
- Then, iterate both in calculation and in calibration

## Determining "PCORR" Function

$$\Delta p=\frac{q_m-p_m\chi}{1+\chi}$$

- Airspeed from LAMS gives second-by-second estimates of $\Delta p$
- Can fit those values to get $\Delta p$ as function of other measurements