

# Nonlinear Curve fitting of nDSF data

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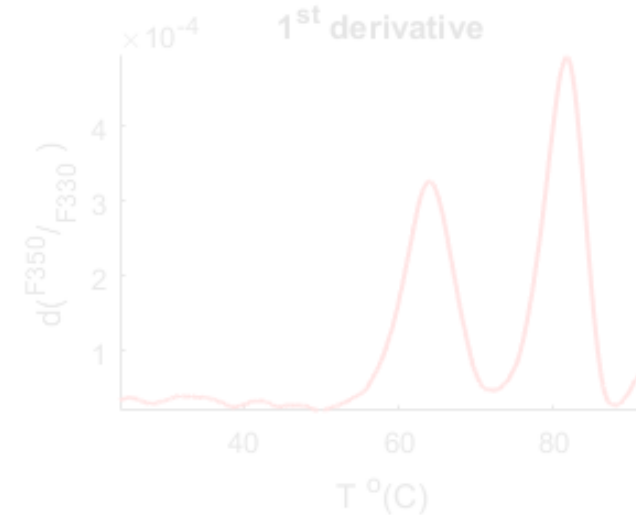
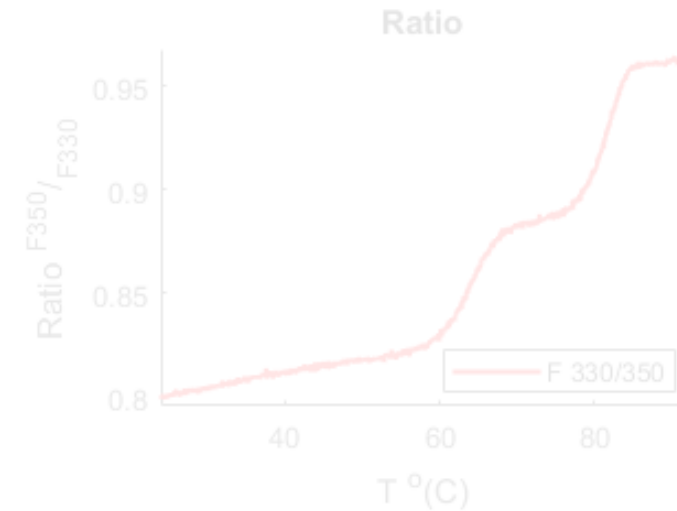
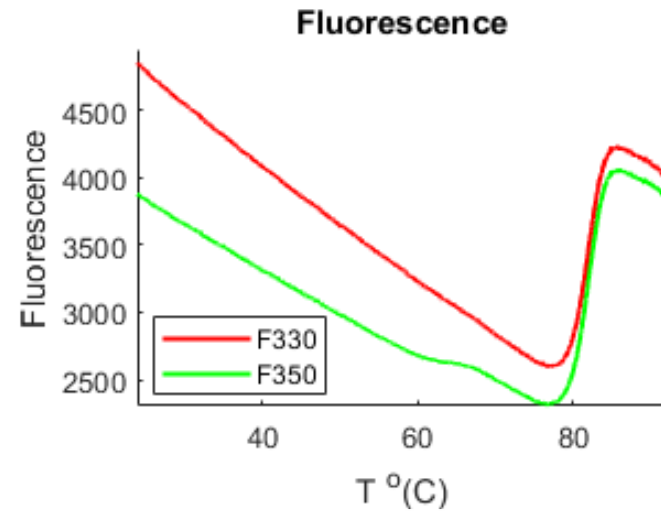
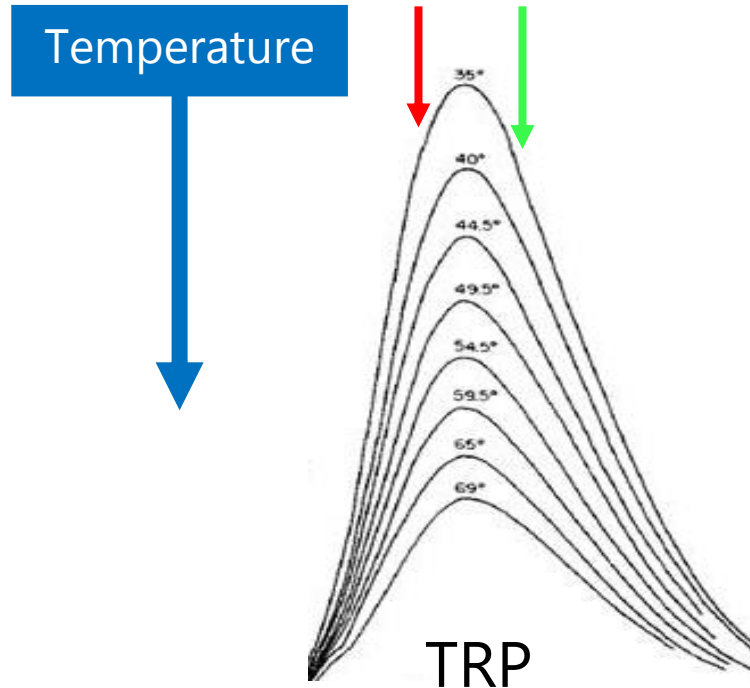
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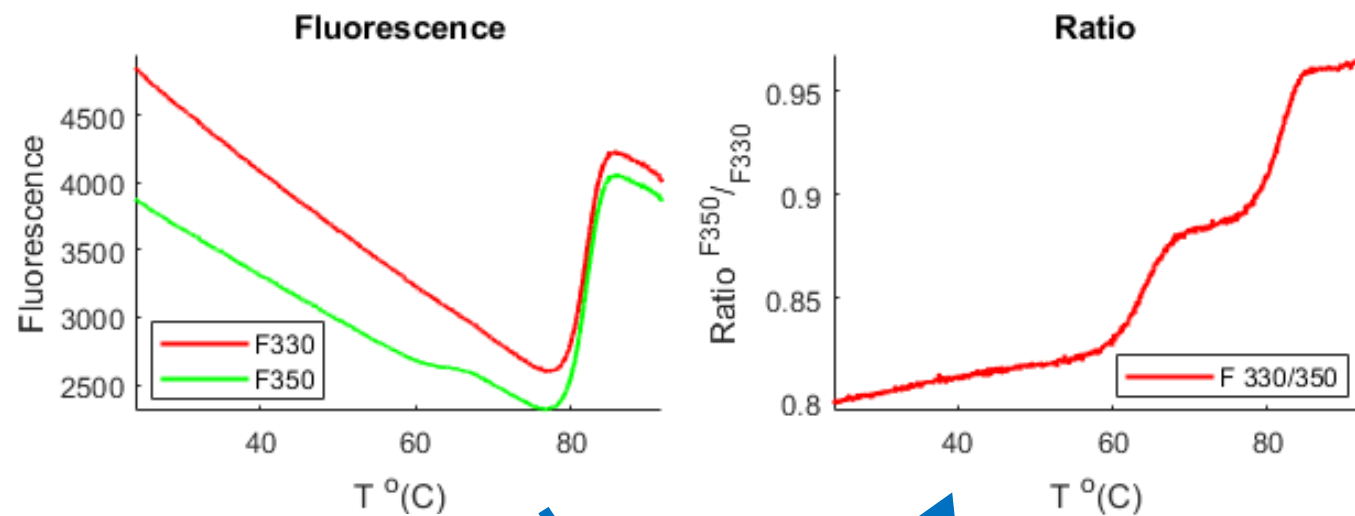
UNIVERSITY OF COPENHAGEN



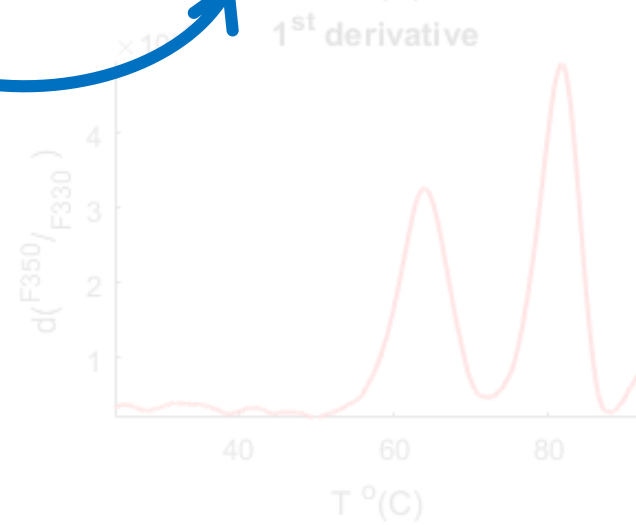
**PIPP**

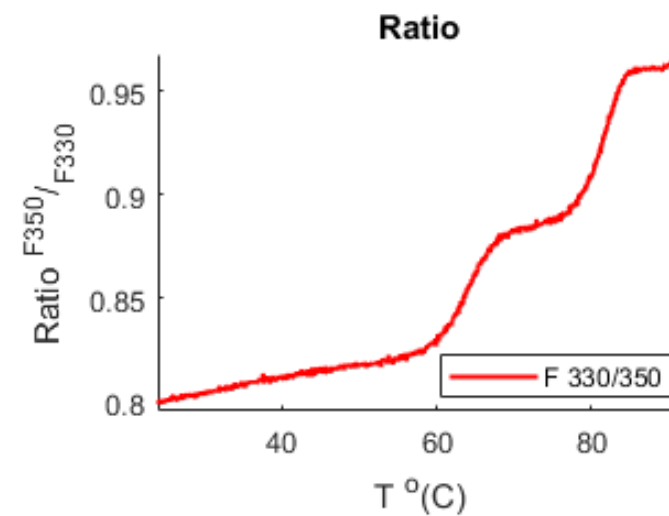
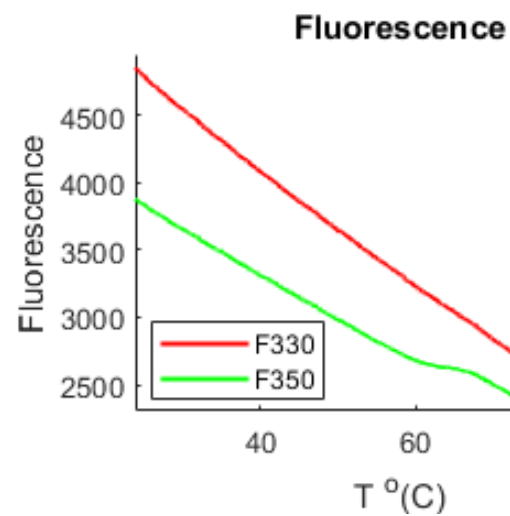
# Nano Differential Scanning Fluorimetry (nDSF)



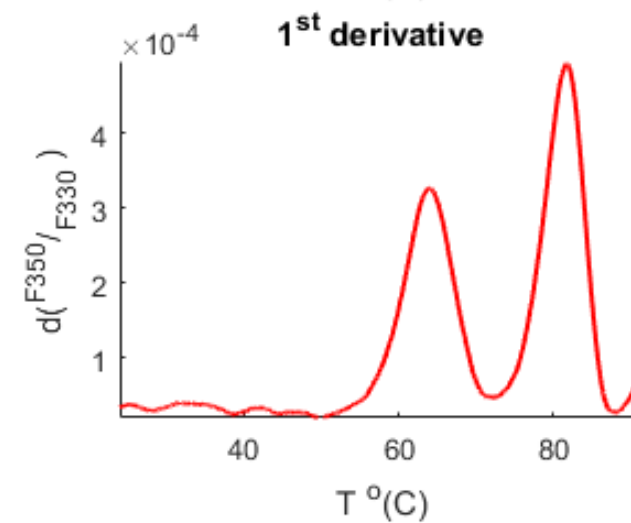


- Ratio
  - transitions

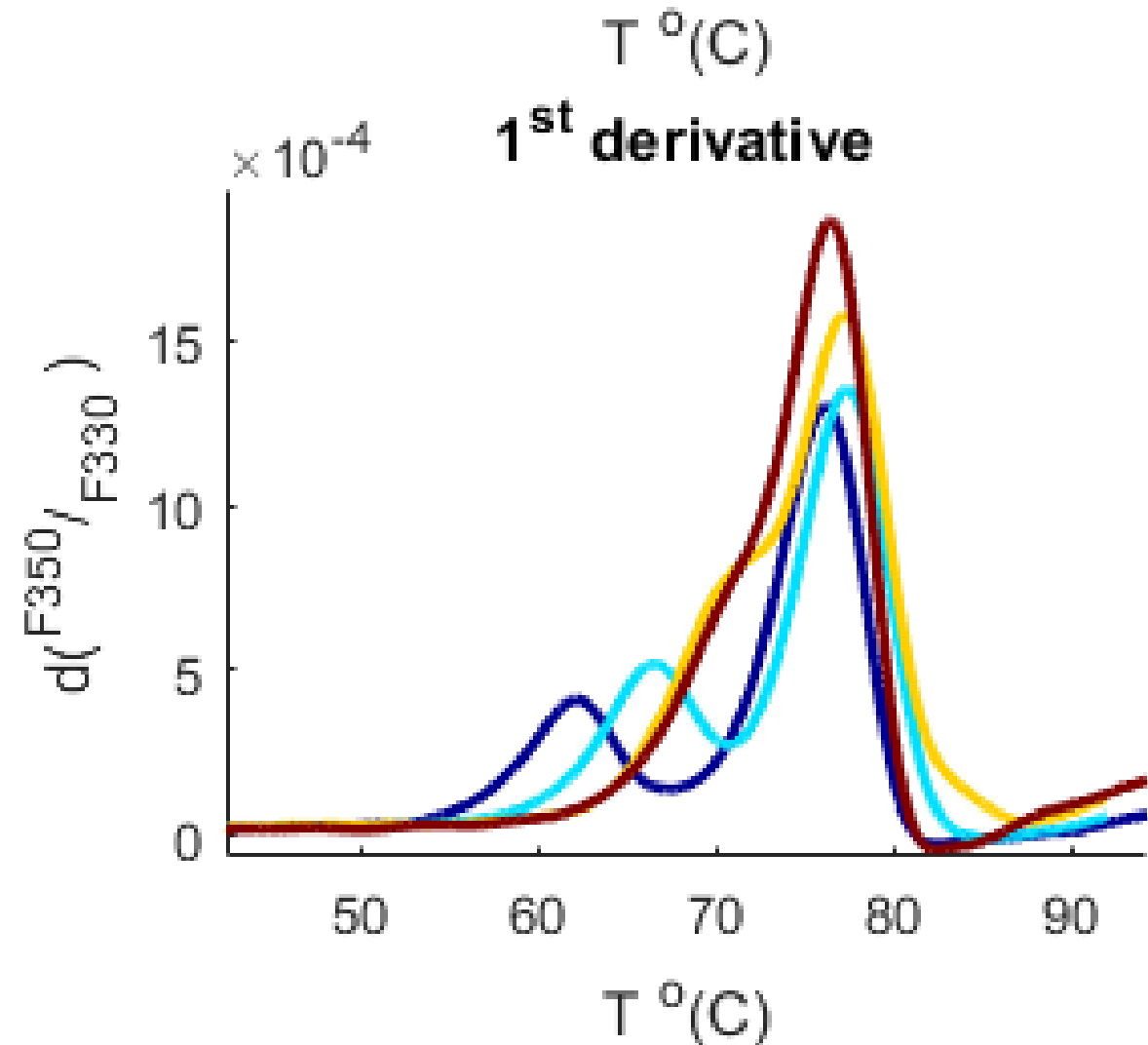




- Separated transitions  
= traditional method



- Overlapping transitions  
i.e. by pH
  - **Wrong** estimation of both transitions

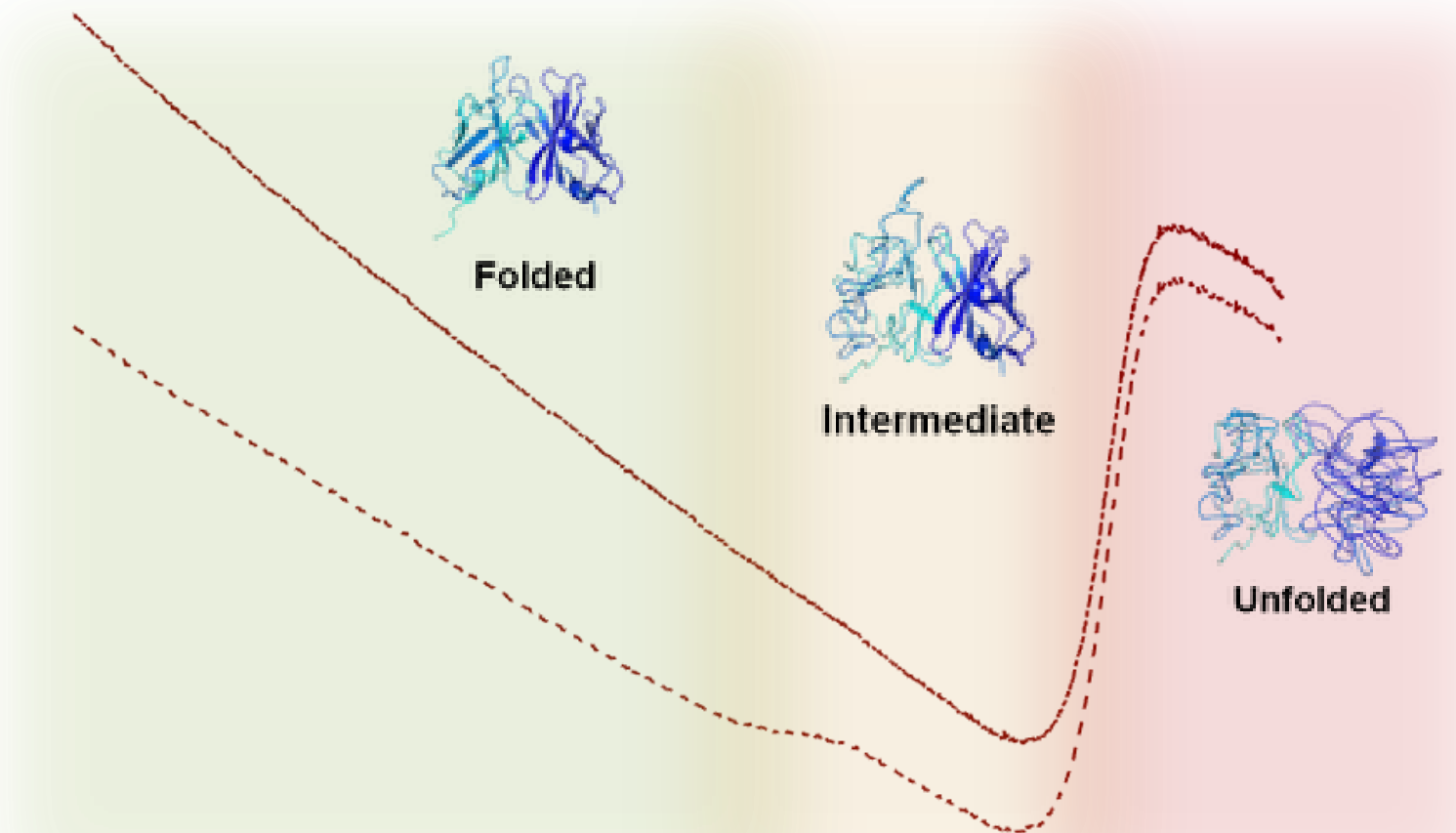


*Folded* ↔ *intermediate* ↔ *unfolded*

*Signal* =

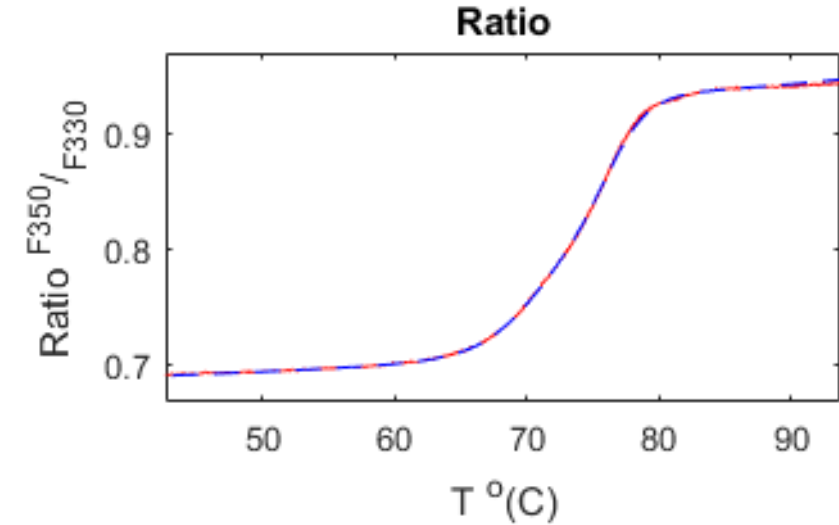
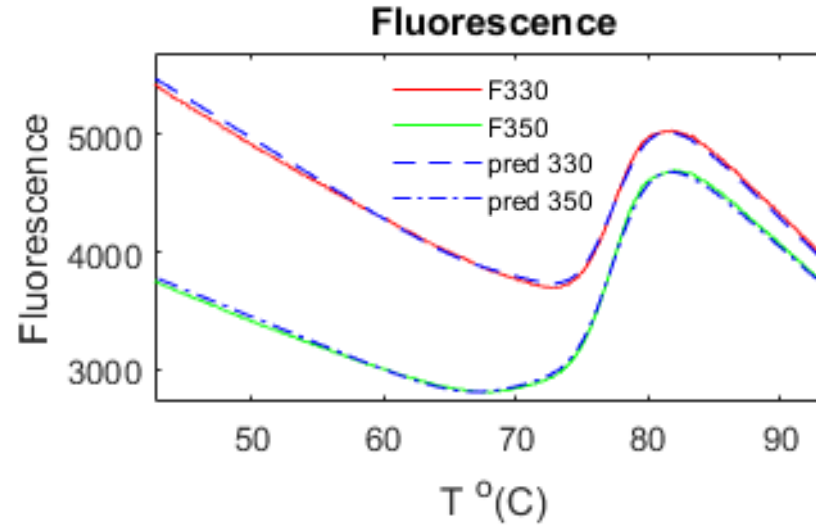
$$\textit{baseline A} * [A] + \textit{baseline B} * [B] + \textit{baseline C} * [C]$$

+ Constraints  
+ Penalties

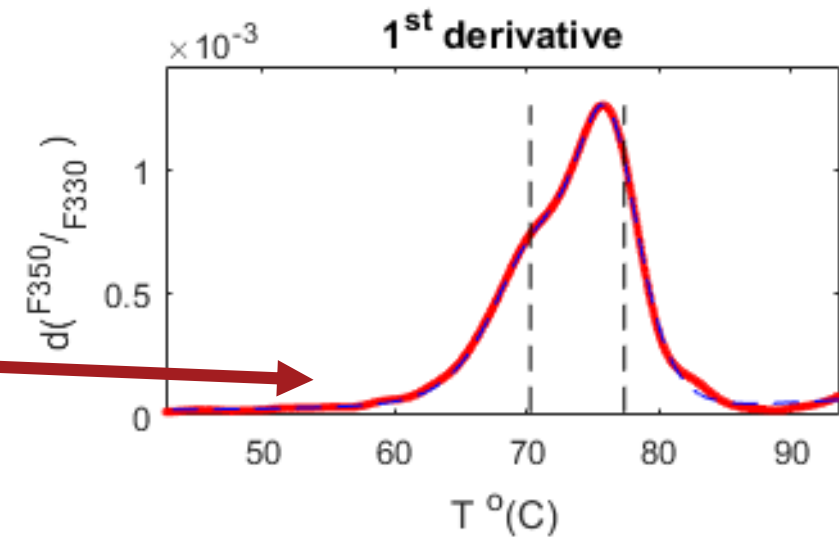


# Results

- Good
  - 75%
  - Relative low amount of constraints



**Onset temperature**



# Results

- Transitions
- (good 75%)

**Future:  
added constraints  
based on series**

