**Changes to Optical Tweezers files since the Optical Tweezers summer school, Santiago, Chile 13. December 2024**

**15 January 2025**

singlerip\_finder.m: Added trace struct field ‘fitrange’ (start and end record for linear fits around rip/zip) and modified ‘slope’ to a two-element array (slope before and after rip/zip).

collect\_tables.m: Minor changes to command window output

several files: Changed variable names peaks and valleys too peakpos and valleypos where appropriate, for clarity.

Use different Tlist versions depending on Instrument name in COM file. Affected files: params.m, T\_from\_COM.m, read\_experiment\_file.m

read\_experiment\_file.m: Detrend default: false.

Analyse\_experiment.m: Cleanup of file name versions handling (with or without path).

RipAnalysis.mlapp: Added tab for multiple f(x) traces. Fixed bugs in cycle selection.

**02 February 2025**

RipAnalysis.mlapp, Tab Single f vs x traces: Fixed the position of Δx and fitting lines for the zips. Problem: For pull-relax cycles, relax.x is shifted in order to match values at force peak. These plot items were not properly shifted. For relax.pull cycles no shifting s required, since the detrending procedure in analyse\_experiment makes curves match at valleys.

**03 February 2025**

Added sortfibers.m that shows number of rips and zips for fibers (collections of experiment files for the same experiment). Added textfile\_names, used by sortfibers.