Time Subtract Average

This XTension calculates for each voxel a new intensity value, by subtracting the time-averaged intensity value from the initial intensity. It eliminates all motionless objects since the difference in intensities for motionless objects are negative values.

There are two options:

1. The user can set all negative values to zero

2. To avoid these negative values and loss of data, any intensity which is zero or negative can be equal to absolute values

To speed up the processing of **2D time series** you can use Image processing - **Swap Time and Z** before and after starting the XTension.

1. After exchanging the Time and Z dimensions start the XTension.
2. Define the number of slices that should be processed.
3. Select to set Negative values either to zero or to absolute values
4. Run the XTension
5. Finally, under the Image processing menu, select again the Swap Time and Z option