

## Process Description:

“Detection” takes in the image sequence(s) of interest, identifies the objects in each image, and returns information such as object positions and intensities.

## Input Channels:

Select which movies/channels you want to analyze.

## Detection Method:

From the dropdown menu, choose which detection method you would like to use:

**“Sub-resolution Object Detection”:** Use this algorithm to detect sub-resolution objects, e.g. single molecules or small molecular aggregates that are smaller than the diffraction limit (i.e. ~200 nm).

Currently this is the only option, but we plan to add more options in future releases.

Choose **“Overwrite existing result MAT file”** to overwrite previous results, if applicable. Otherwise, the software will create a new results file whose name is incremented by 1.

Choose **“Apply setting to all movieData”** if you are analyzing multiple movies and you want to analyze them all using the same parameter settings. NOTE: Do not choose this option if you plan to use absolute background information (see detection parameters under “Setting”), since each movie should have its own background images.