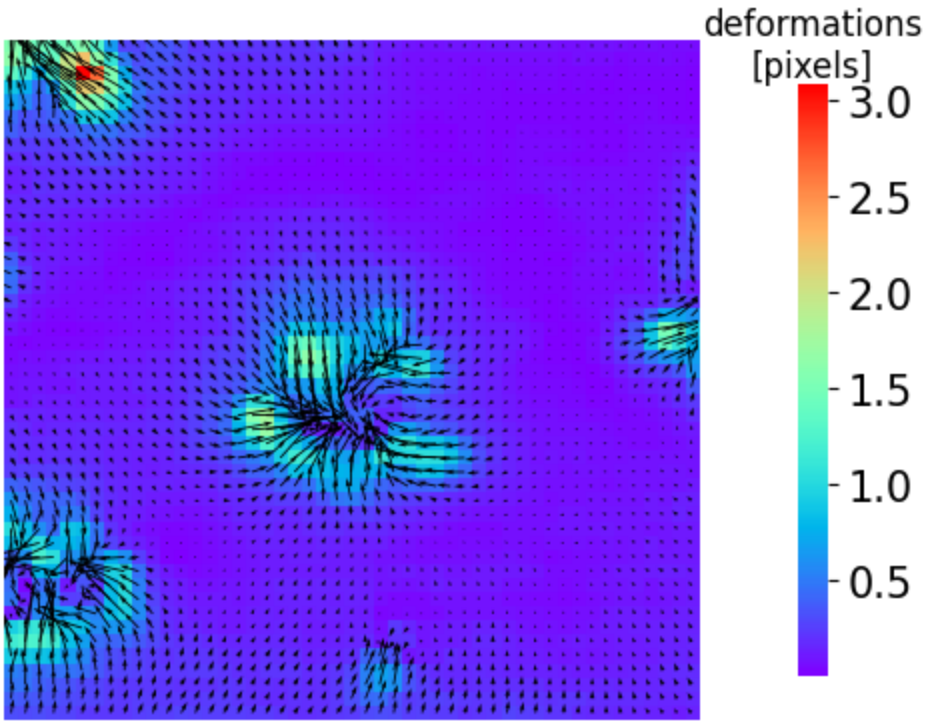
In [1]:
```
from pyTFM.TFM_functions import calculate_deformation
from pyTFM.plotting import show_quiver
```

In [3]:
```
# paths to the images
im_path1 = r"example_data_for_pyTFM/python_tutorial/04after.tif" # change to your loc
im_path2 = r"example_data_for_pyTFM/python_tutorial/04before.tif"
# calculating the deformation
u, v, mask_val, mask_std = calculate_deformation(im_path1, im_path2, window_size = 10
# the unit of window size and overlap is pixels of the image of the beads
```

```
C:\Users\schatzm\Anaconda3\envs\pyTFM\lib\site-packages\numpy\core\fromnumeric.py:34
41: RuntimeWarning: Mean of empty slice.
  out=out, **kwargs)
C:\Users\schatzm\Anaconda3\envs\pyTFM\lib\site-packages\numpy\core\_methods.py:189:
RuntimeWarning: invalid value encountered in double_scalars
  ret = ret.dtype.type(ret / rcount)
```

In [4]:
```
# plotting the deformation field
fig1, ax = show_quiver(u, v, cbar_str="deformations\n[pixels]")
```



In [ ]:
```
```