TRACE code (visit Nancy)

Matlab toolboxes:
- Image Processing
- Vision

in Matlab:
- Trace → starts analysis
- showevents makes video
  → input parameters: (FTr ,1,68,11, 'showresults')
    Matrix containing   ↑   ↑   ↖
    information   first last what should
                        frame frame be depicted
                        I want to see on picture
                                      → see
                                      comments
                                      in file

                                      name of
                                      resulting file
                                      ↓

- deform → plots particle trajectories
  → in deform → N sets the number of frames
    the particle must have been visible on
    to be plotted

Learn how to work with Matlab matrices

Result files: *FTr contains most information. Traced
    particles are listed continuously below each
    other
    *FDustArray contains only data of interesting particles

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Matlab Results: FTr matrix : columns 1/2 : brightest
point coordinates , columns 9/10: "center of mass "
(mean value of all pixels the particle covers)
→ strangely the center of mass is much more noisy.

export variable as ascii file
dlmwrite ('filename', variable);
or dlmwrite ('filename', variable, 'delimeter');

Future video stabilization: paint 2-3 white crosses
on piston tube