

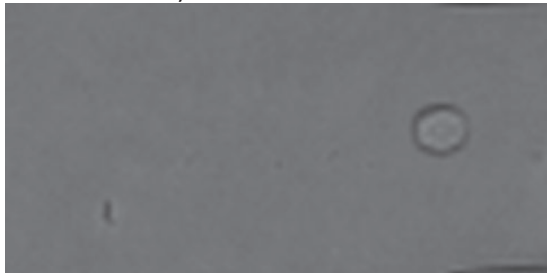
Technical Challenge 1: Focal Plane Identification

Primary Objective: Locate starting frame number of event series of all cells located in *focal plane 1*

Secondary Objectives:

- 1. Determine the entry velocity for each cell in px/frame.
- 2. Do other focal planes (more than 2) exist, how would you explore and/or quantify this?

Focal Plane 1, frame # 3



Focal Plane 2, frame # 102



Approx. Frame Numbers of Other FP1 Cells

- 3
- 15
- 35
- 291
- 344
- 366

Approx. Frame Number of Other FP2 Cells

- 86
- 102
- 149
- 208
- 258
- 378

Notes:

- Preference for low level methods
- Primary Objective to target run time of <1sec for analysis block using Stack1.tif (not including setup)