

Abstract Submitted  
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**Local fluorescence in micro channels for particle counting**<sup>1</sup> MARIANA CENTENO SIERRA, MATHIEU HAUTEFEUILLE, CATALINA STERN, Facultad de Ciencias, UNAM — We produce local fluorescence in polydimethylsiloxane (PDMS) microchannels with a low power laser. This technique can be used to count either particles or cells in microflows. A CCD webcam is mounted on the objective of a microscope to visualize the flow. Particles obstruct the fluorescence as they pass by, allowing for a simple counting method that is software controlled. We present the experimental setup and preliminary results.

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