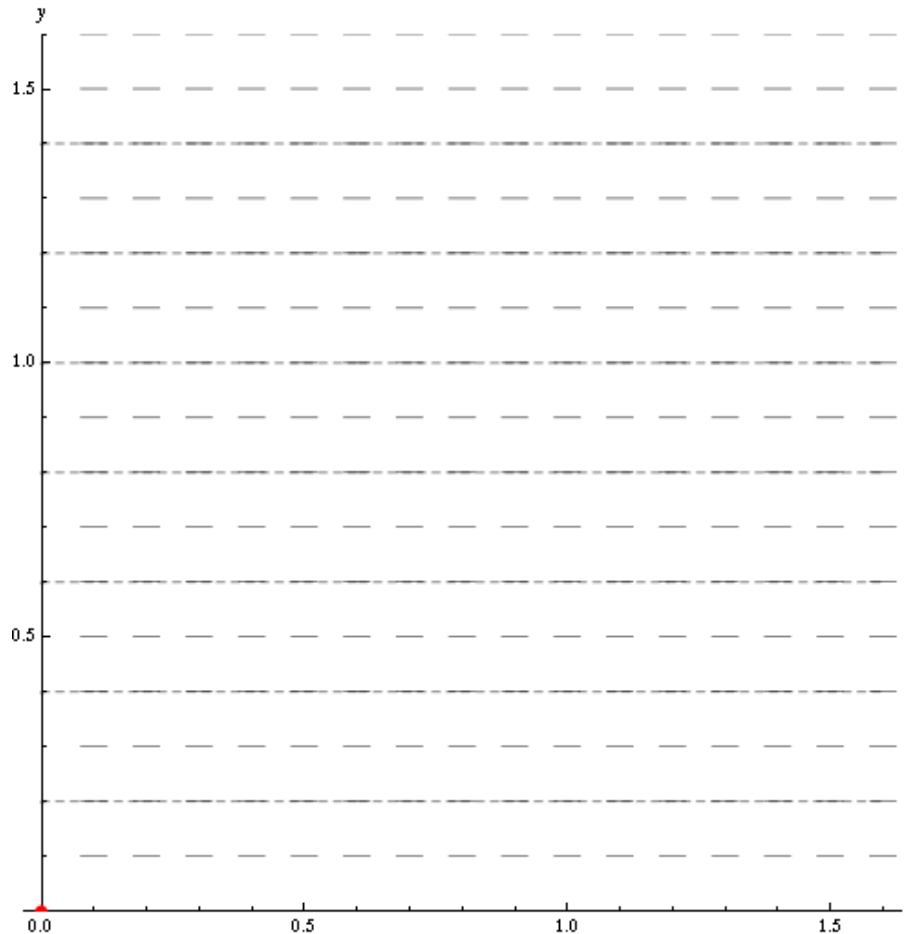


Tobias Bleninger

MECÂNICA DOS FLUIDOS AMBIENTAL I

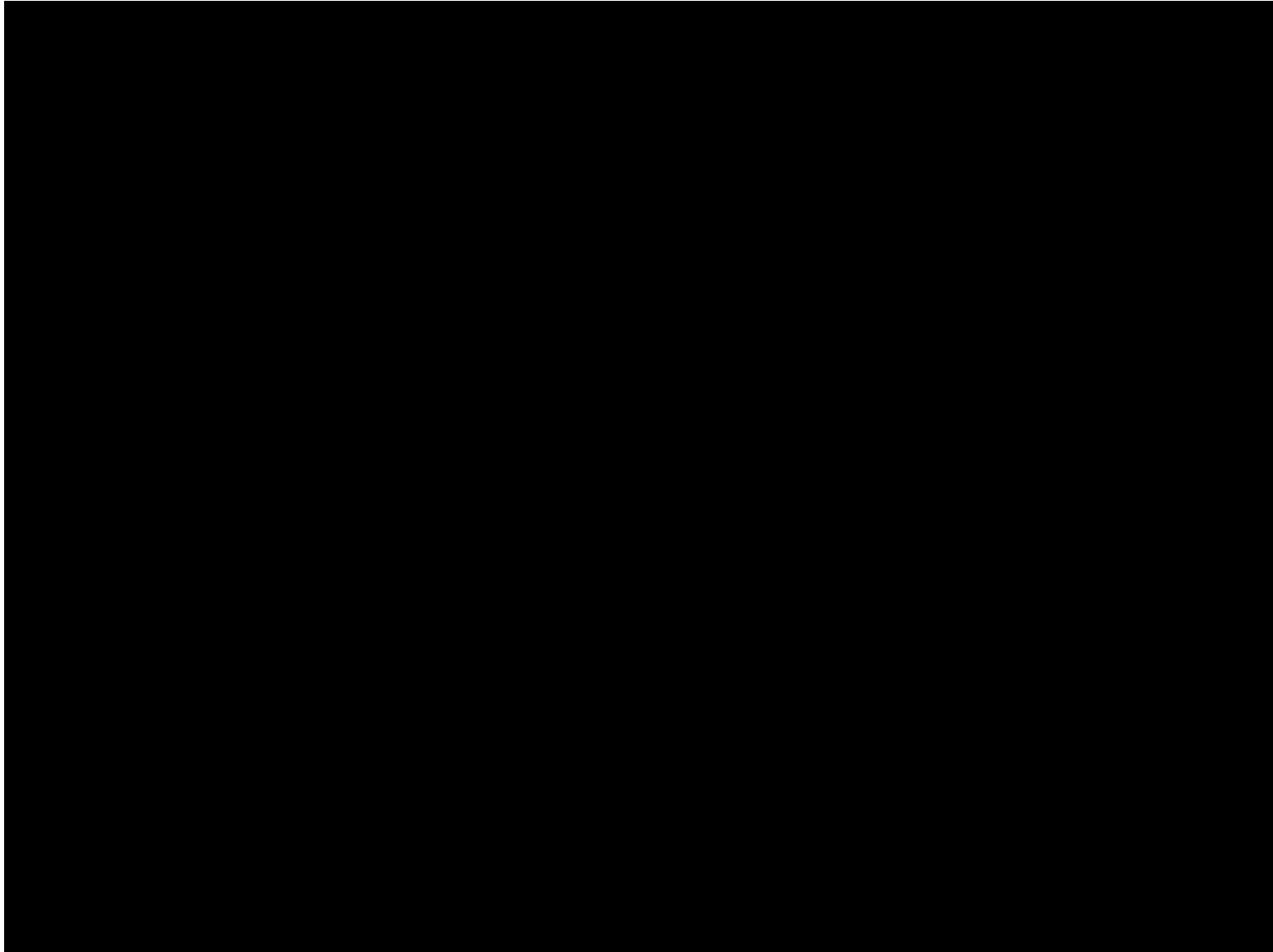
Trajetória, linha de emissão e corrente



The plot shows fluid flow under the velocity field $\mathbf{u}(\mathbf{x}, t) = (1, yt)$. The red dot represents a particle released from the origin at time $t=0$, tracing out its *pathline* (*trajetória*) in red. As it moves, it leaves behind a trail of blue ink (released from the origin), which starts on the pathline, but is carried up by the fluid flow (streakline = *linha de emissão*). The velocity is represented twice, with flow vectors, and the grey dashed *streamlines* (*linha de corrente*), which connect the flow vectors.

Fonte: http://en.wikipedia.org/wiki/File:Streaklines_and_pathlines_animation.gif

Trajetória, linha de emissão e corrente



Pressure Fields and Fluid Acceleration, A.H. Shapiro

http://hydro.ifh.uni-karlsruhe.de/Videos/3_1_Stromlinien.html

3.1.1 Strömungsbilder; Stromlinie, Bahnlinie, Streichlinie

silent film loop FM-48 "Flow Visualization", S.J. Kline, NCFMF

http://hydro.ifh.uni-karlsruhe.de/Videos/3_1_1_Stroemungsbilder.html

Trajetória, linha de emissão e corrente



Fundamental Principles of Flow, Hunter Rouse

http://hydro.ifh.uni-karlsruhe.de/Videos/3_1_1_Koerperumstroemung.html