

**Art & Science - IV Edizione**

**Tappa presso l'Università Parthenope**



**Dipartimento di Scienze e Tecnologie**  
**Dipartimento di Ingegneria**

**L'Arte della Visualizzazione nello Studio dei Fluidi**  
**L Cozzolino**

Napoli, 30 marzo 2023

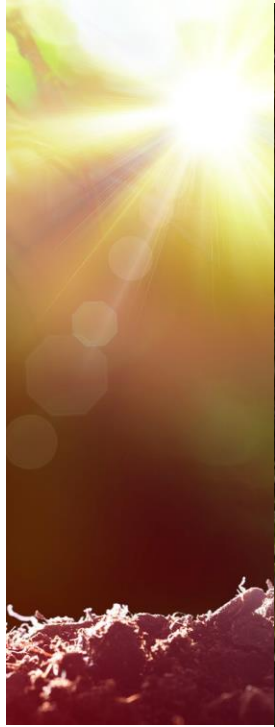
# Fluidi ovunque, a ogni scala



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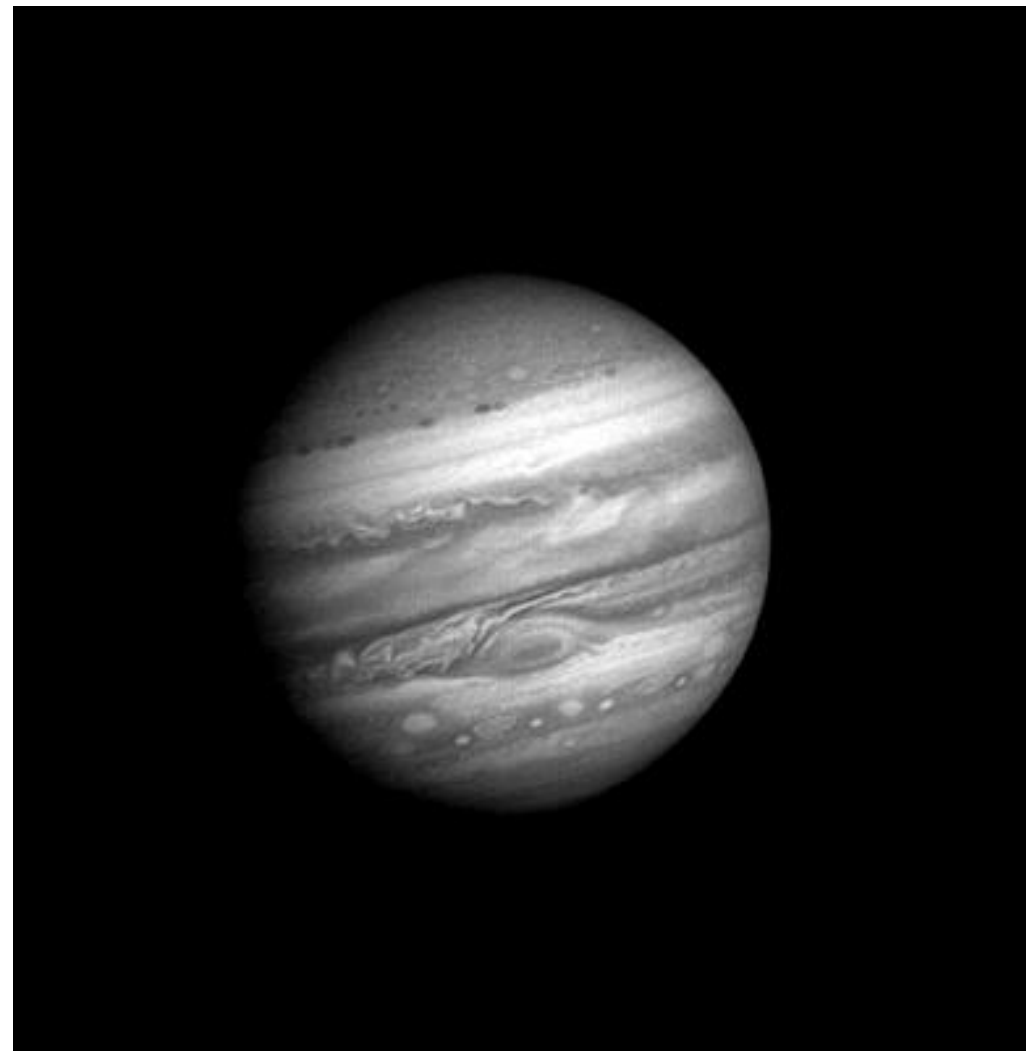
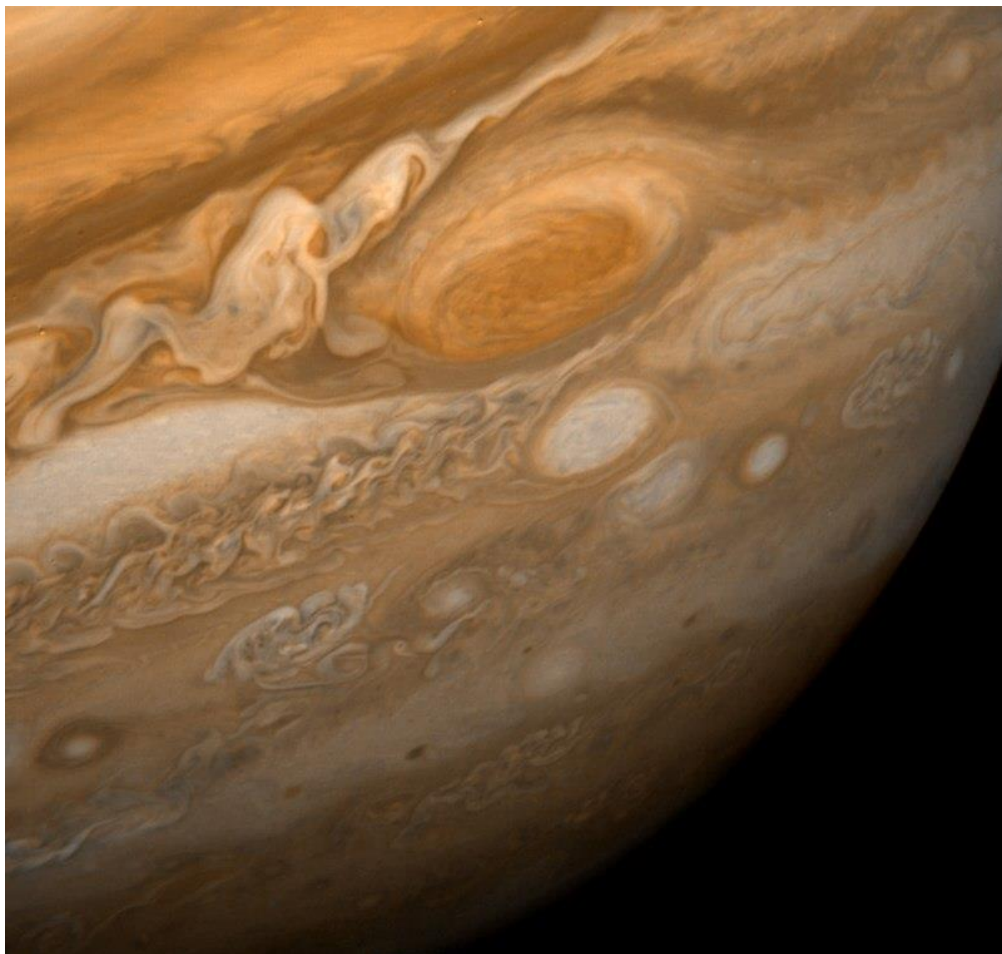


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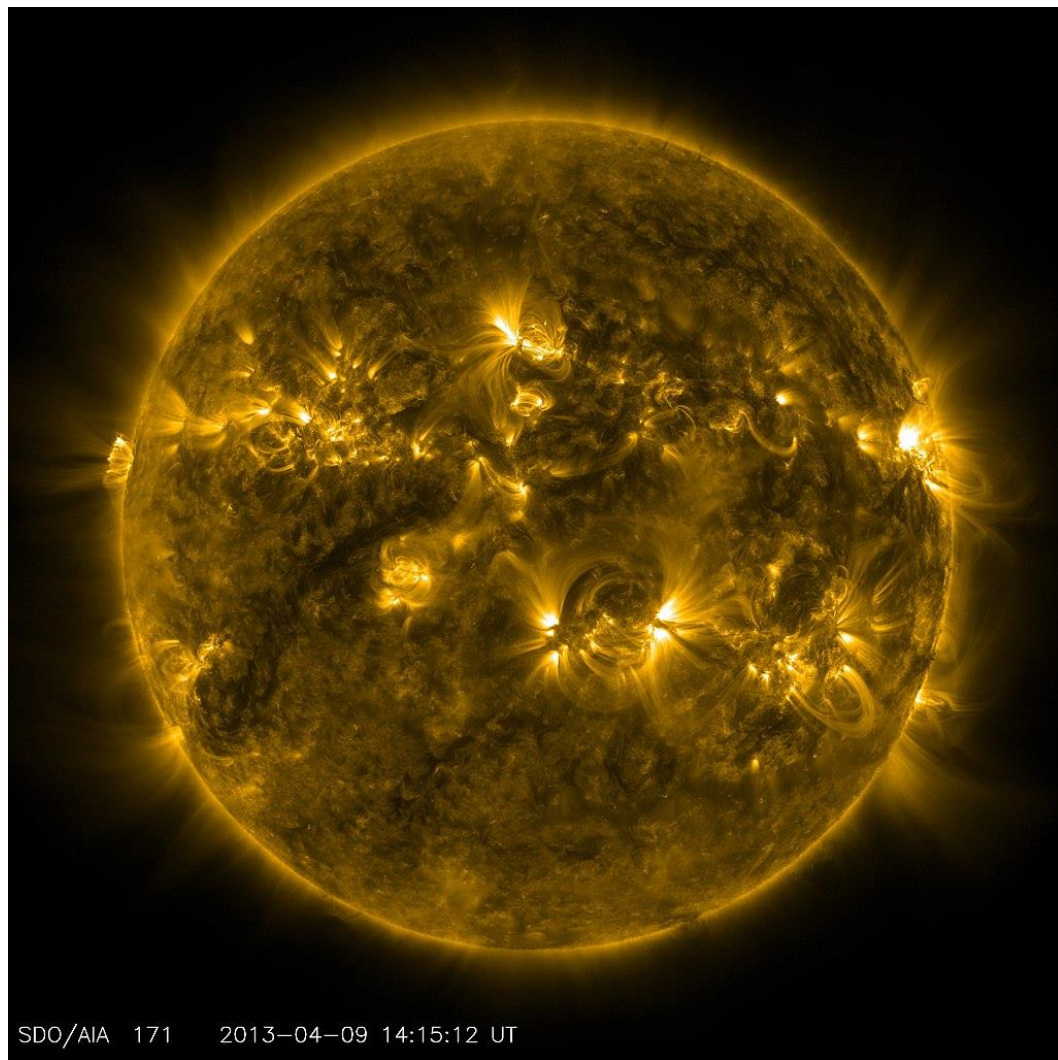




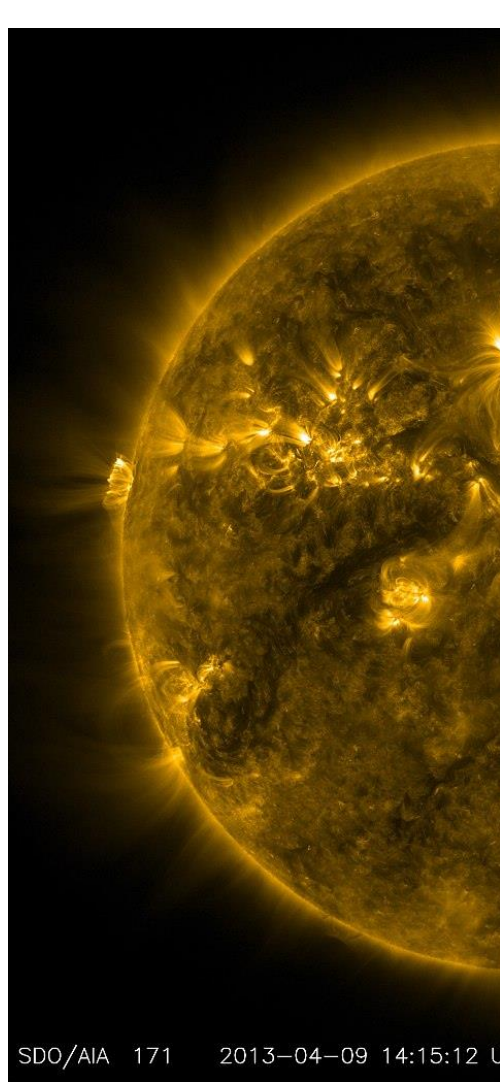
# Fluidi ovunque, a ogni scala



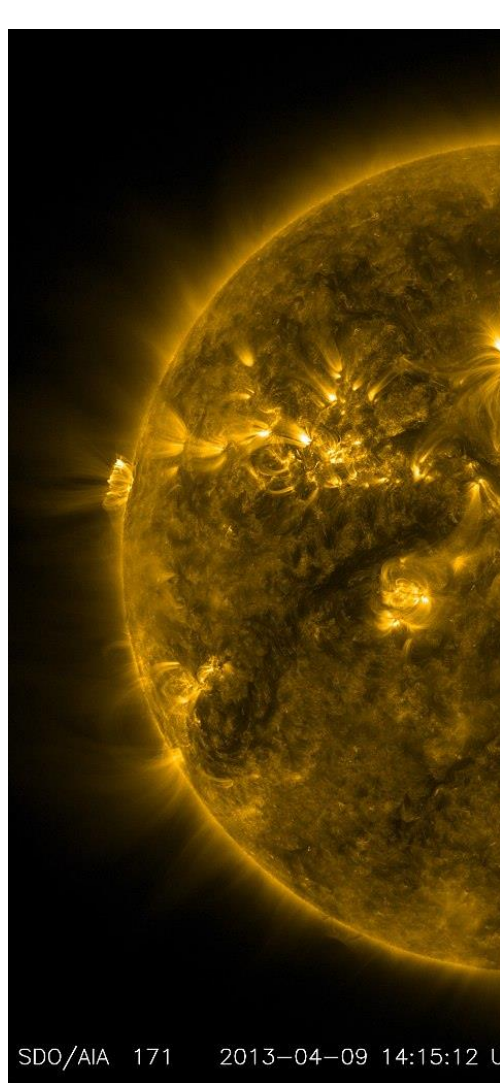
# Fluidi ovunque, a ogni scala



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# Fluidi ovunque, a ogni scala



# Fenomeni simili a scale diverse



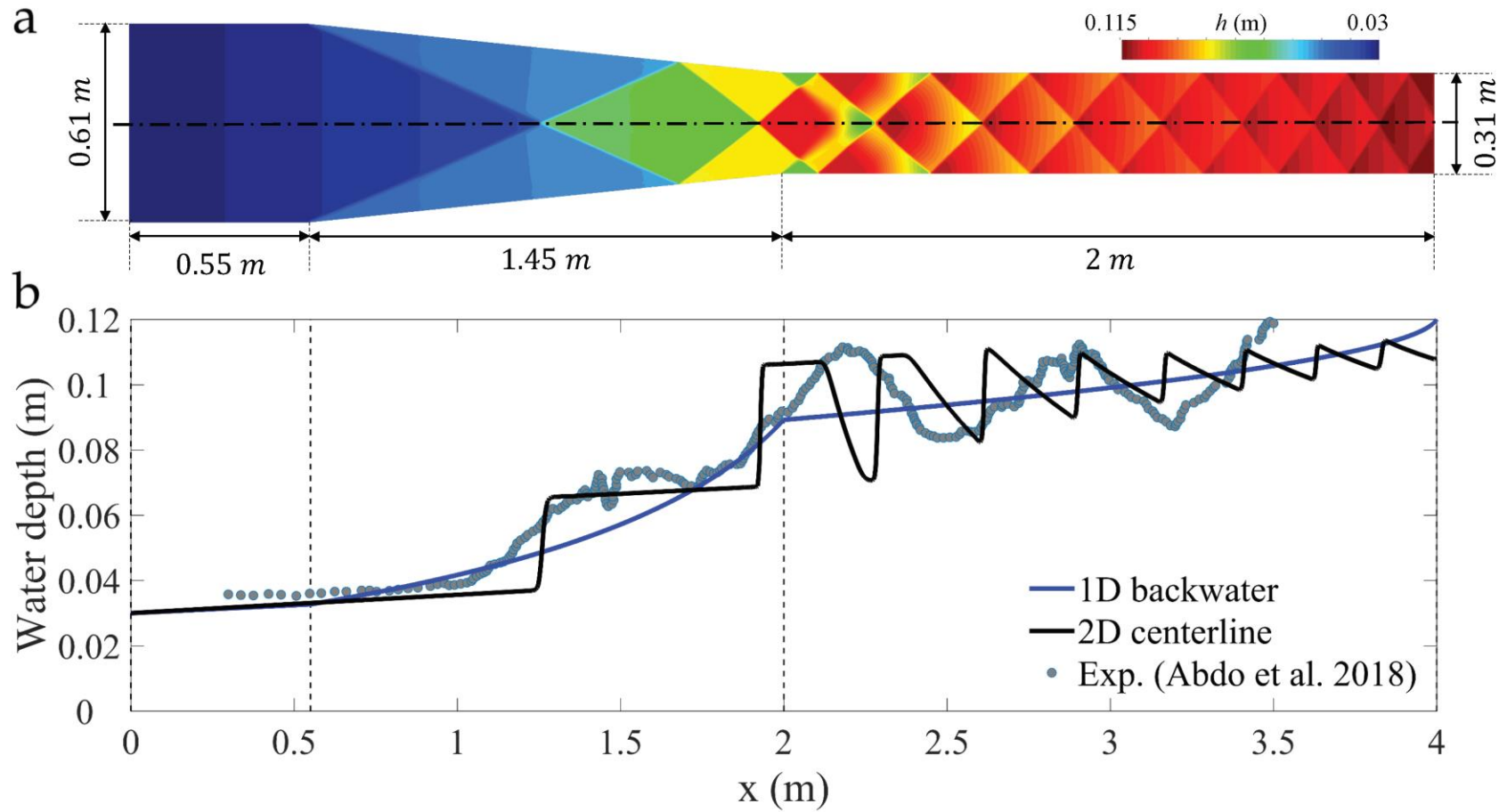
# Fenomeni simili a scale diverse



# Fenomeni simili a scale diverse

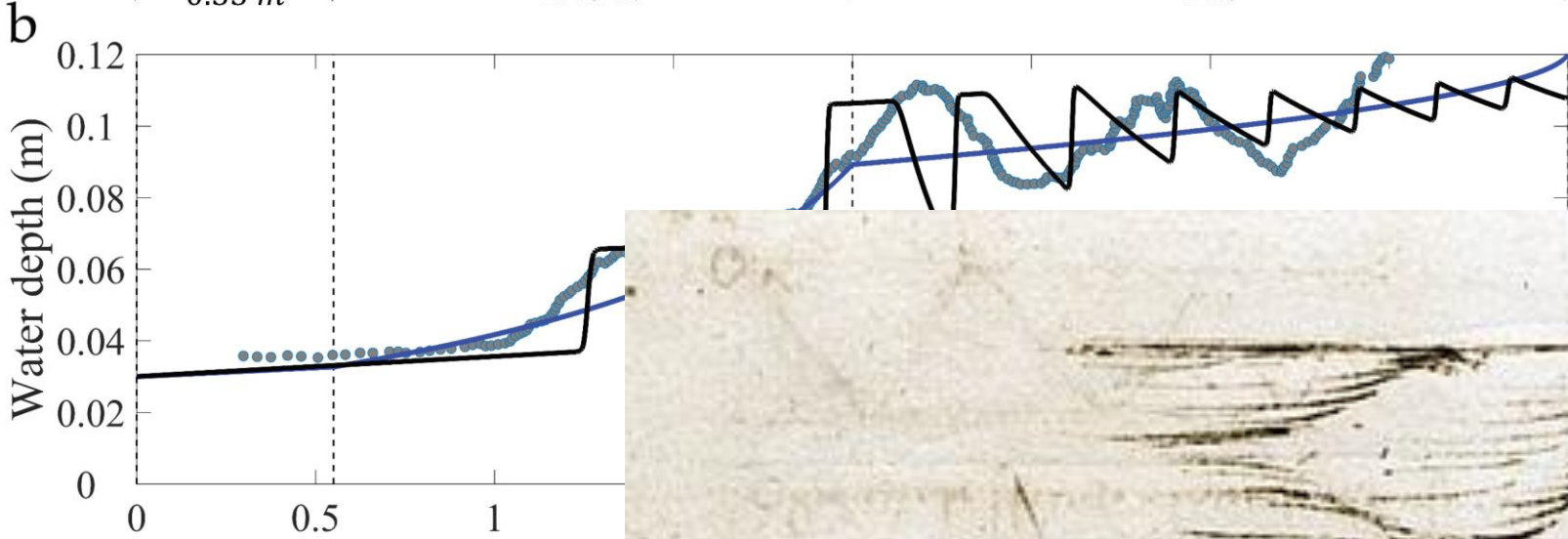
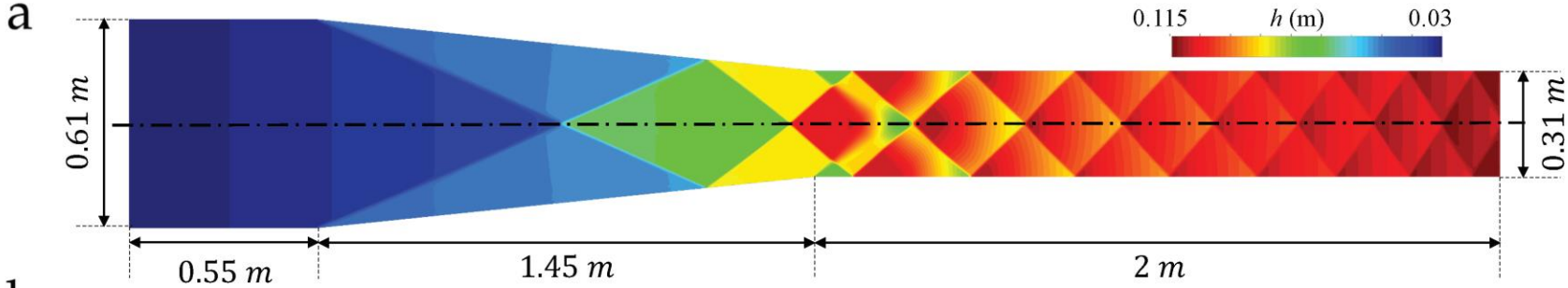


# Il primo esempio di visualizzazione: Leonardo

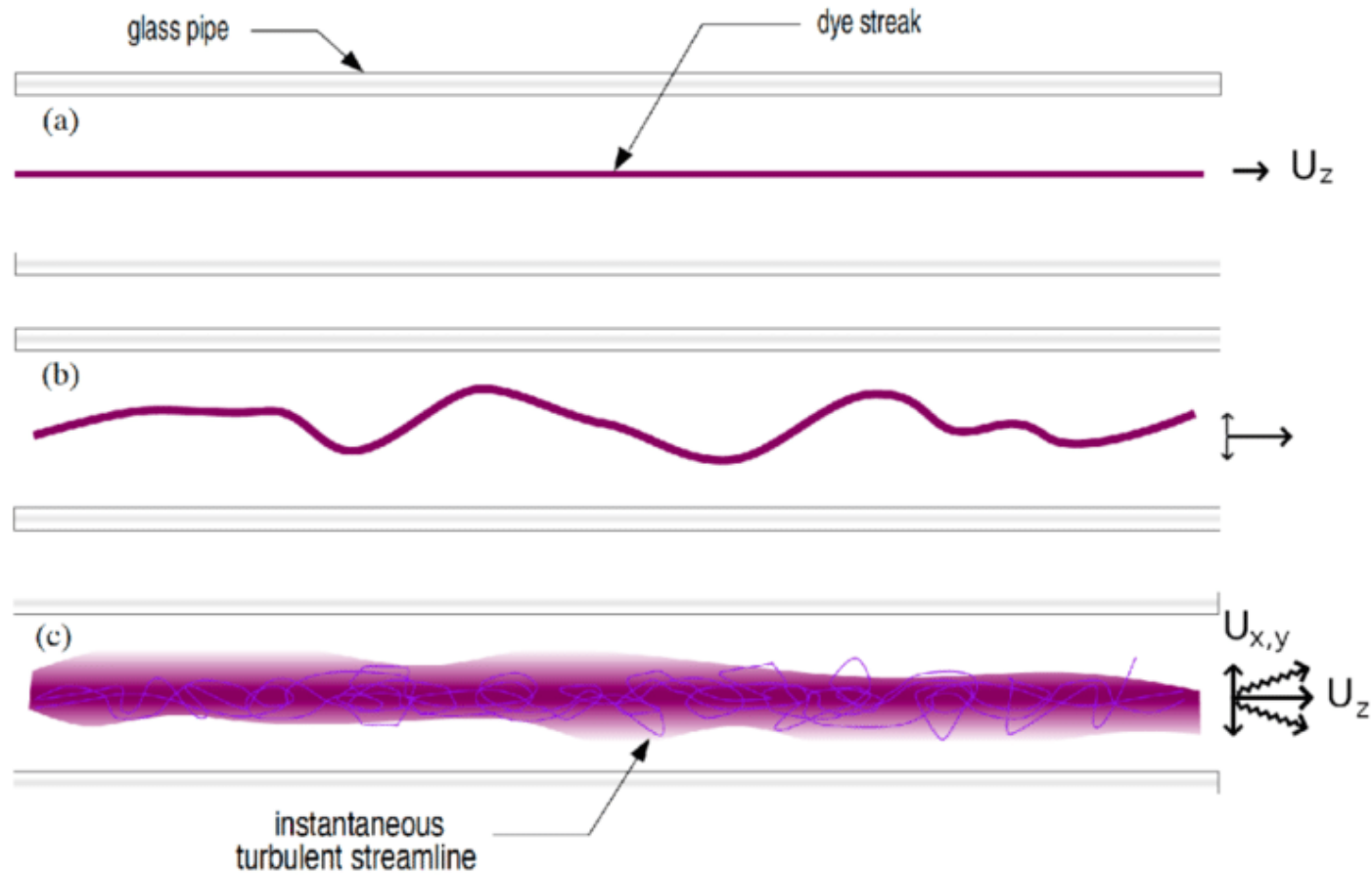




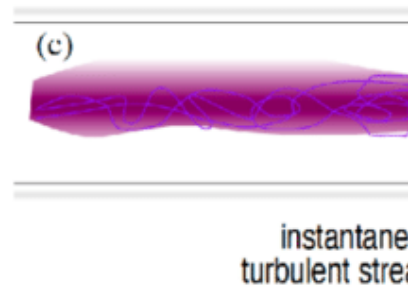
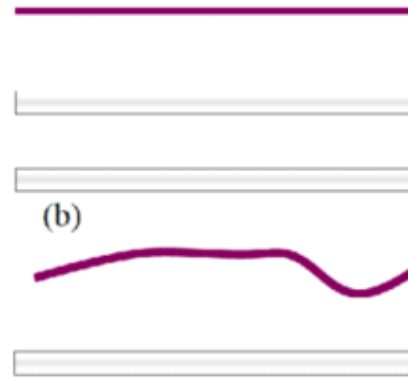
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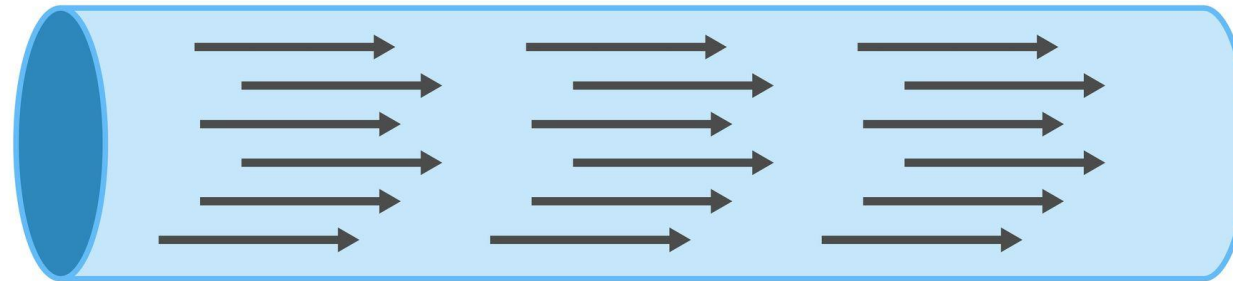
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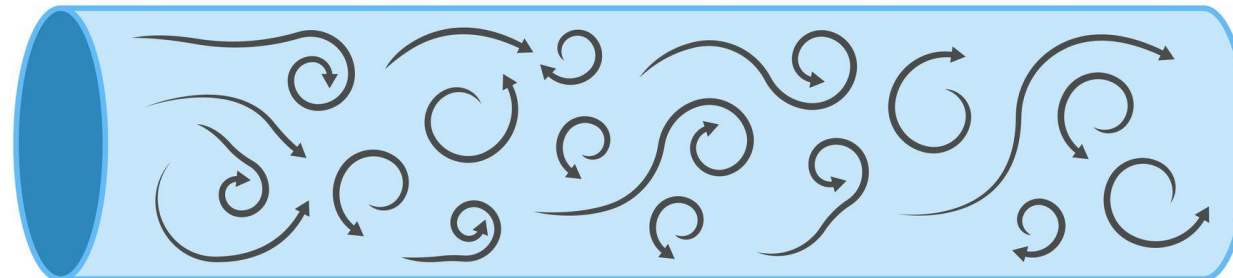
# Il primo esempio di visualizzazione: Leonardo



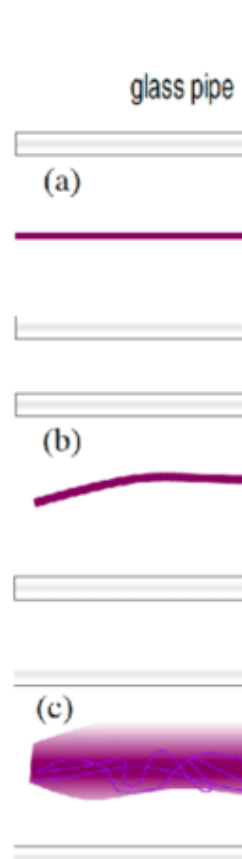
**LAMINAR FLOW**



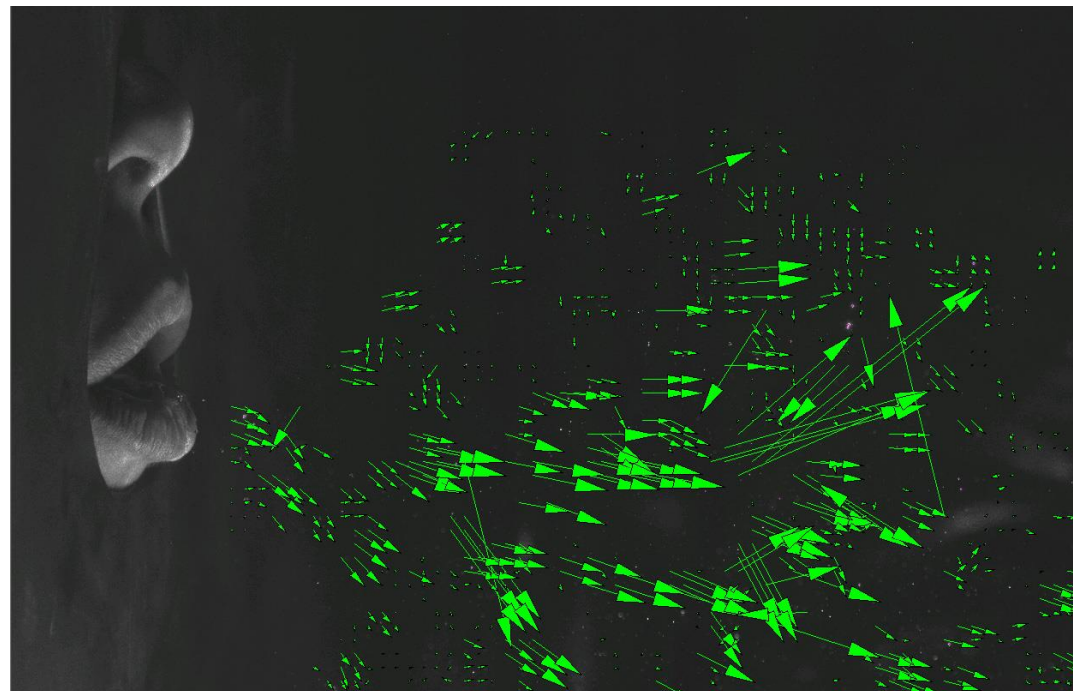
**TURBULENT FLOW**



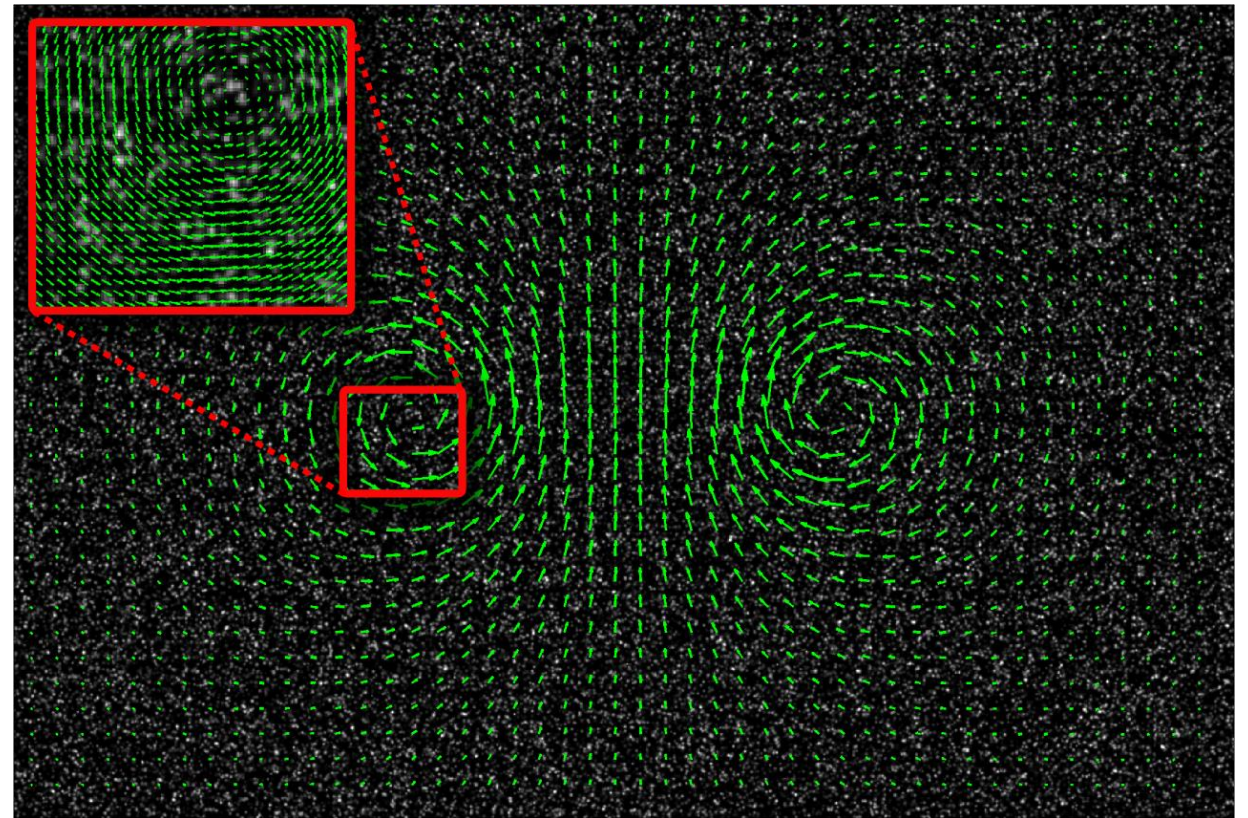
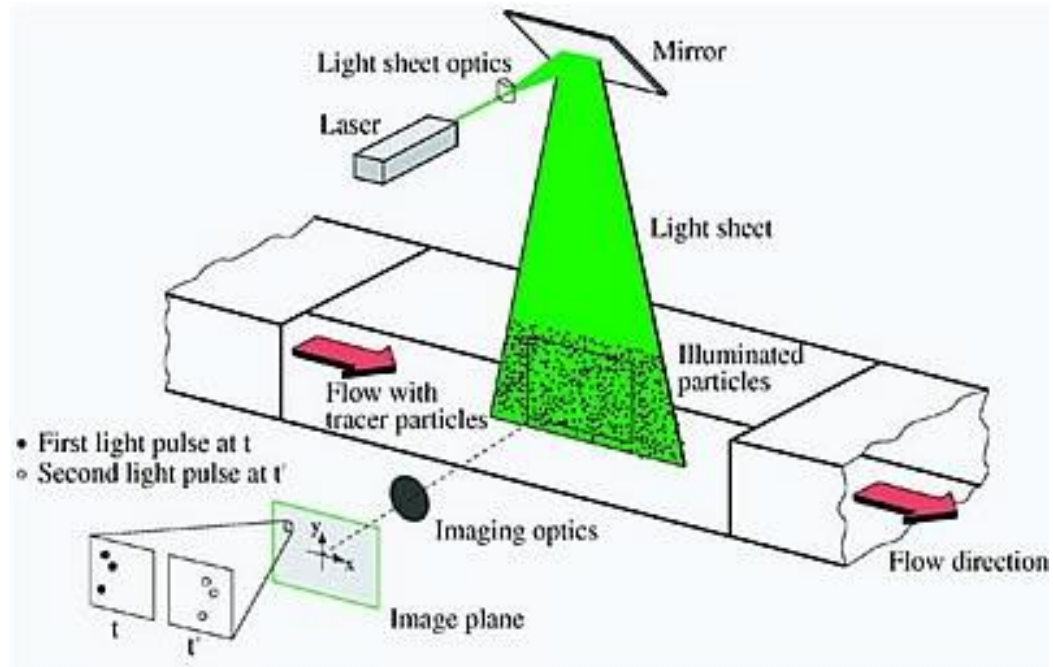
# Il primo esempio di visualizzazione: Leonardo



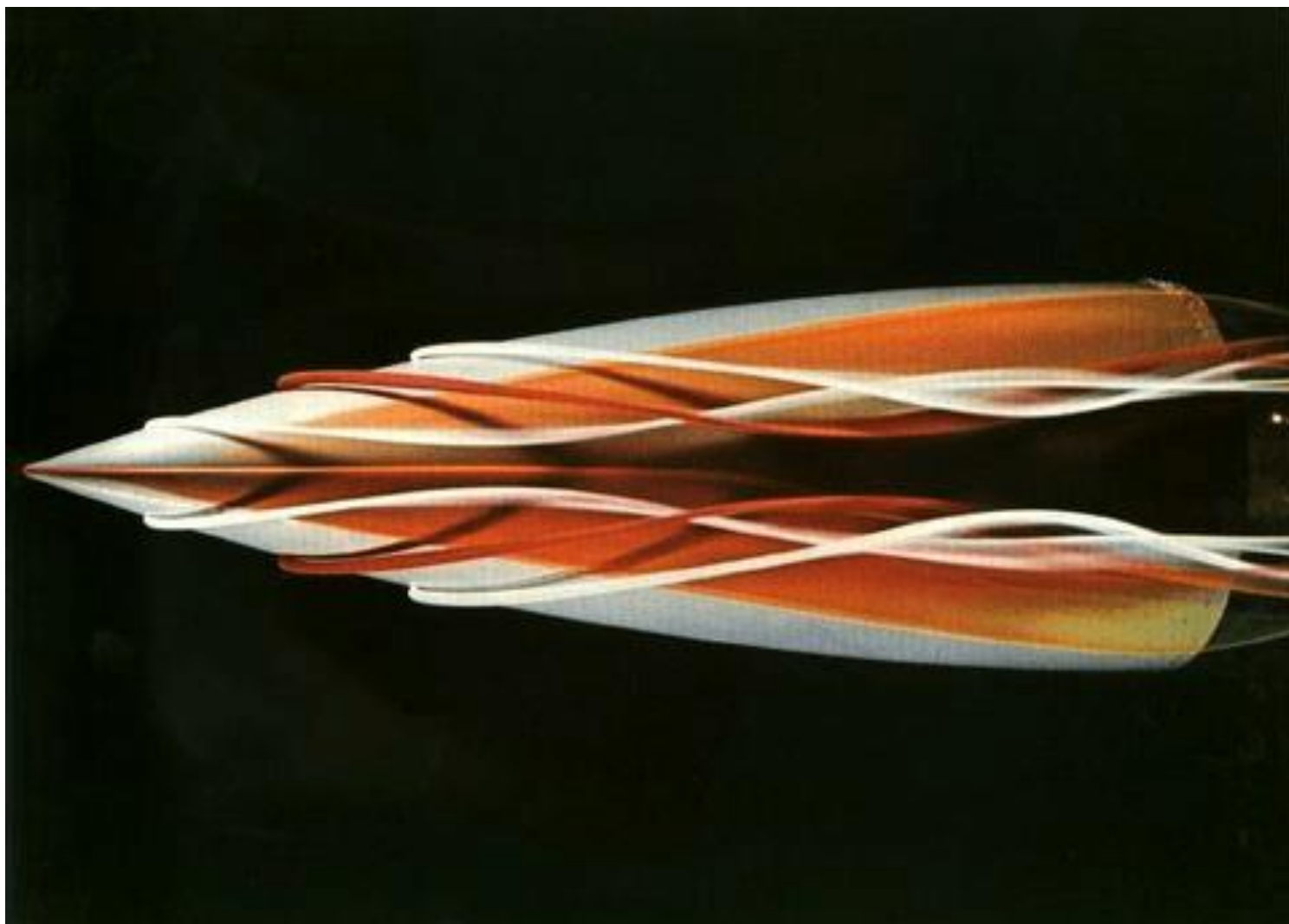
# PIV: Particle Image Velocimetry



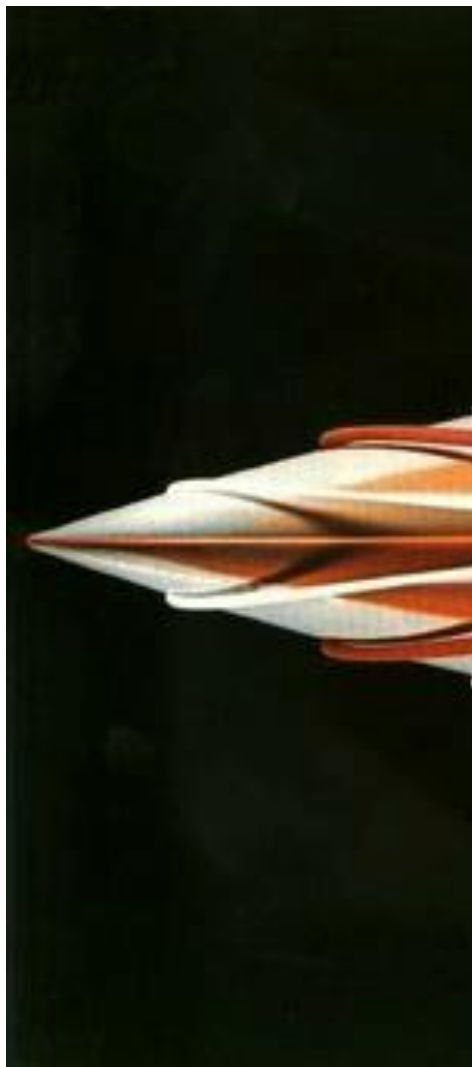
# PIV: Particle Image Velocimetry



# Inchiostri



# Inchiostri





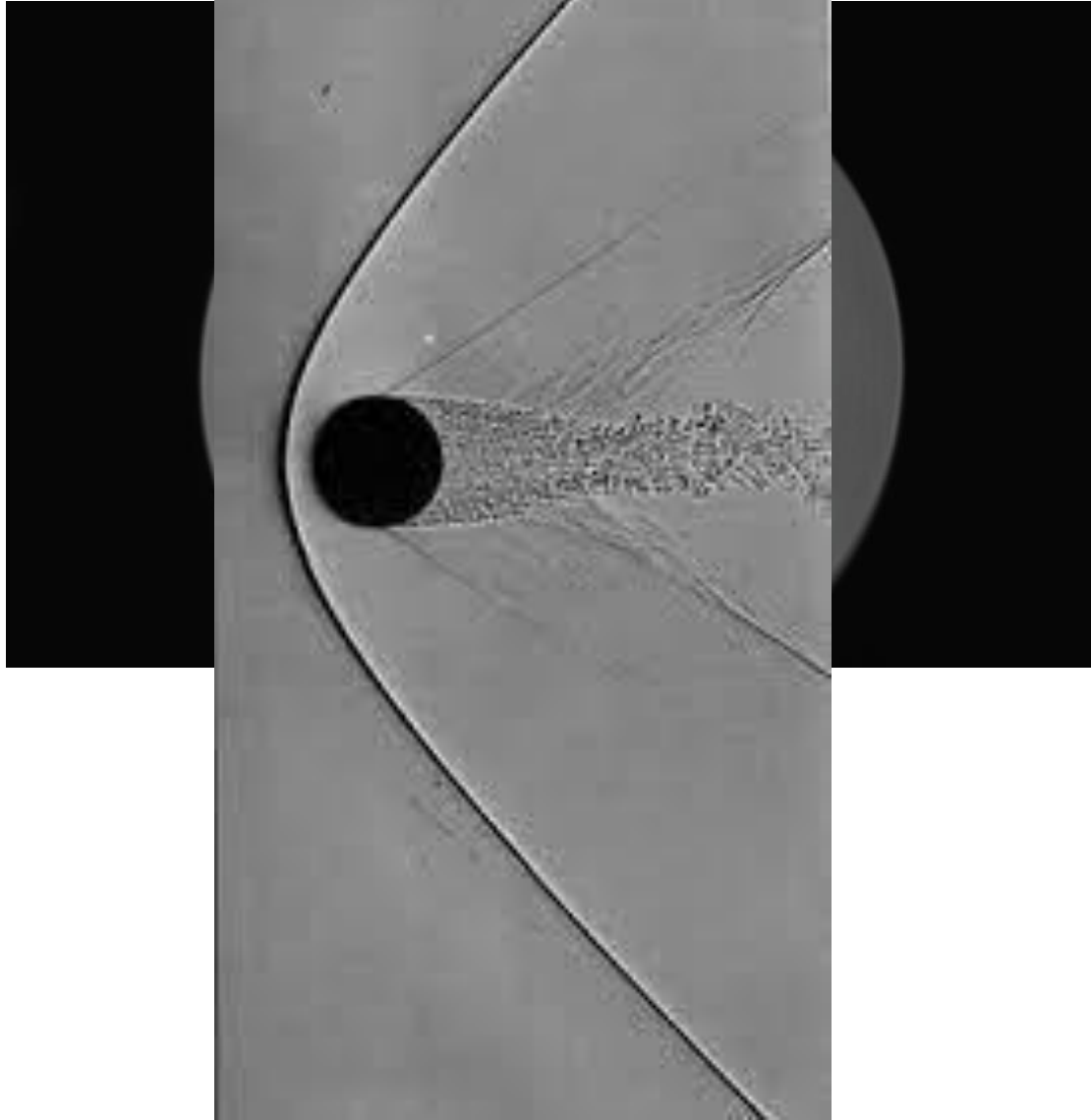
# Inchiostri



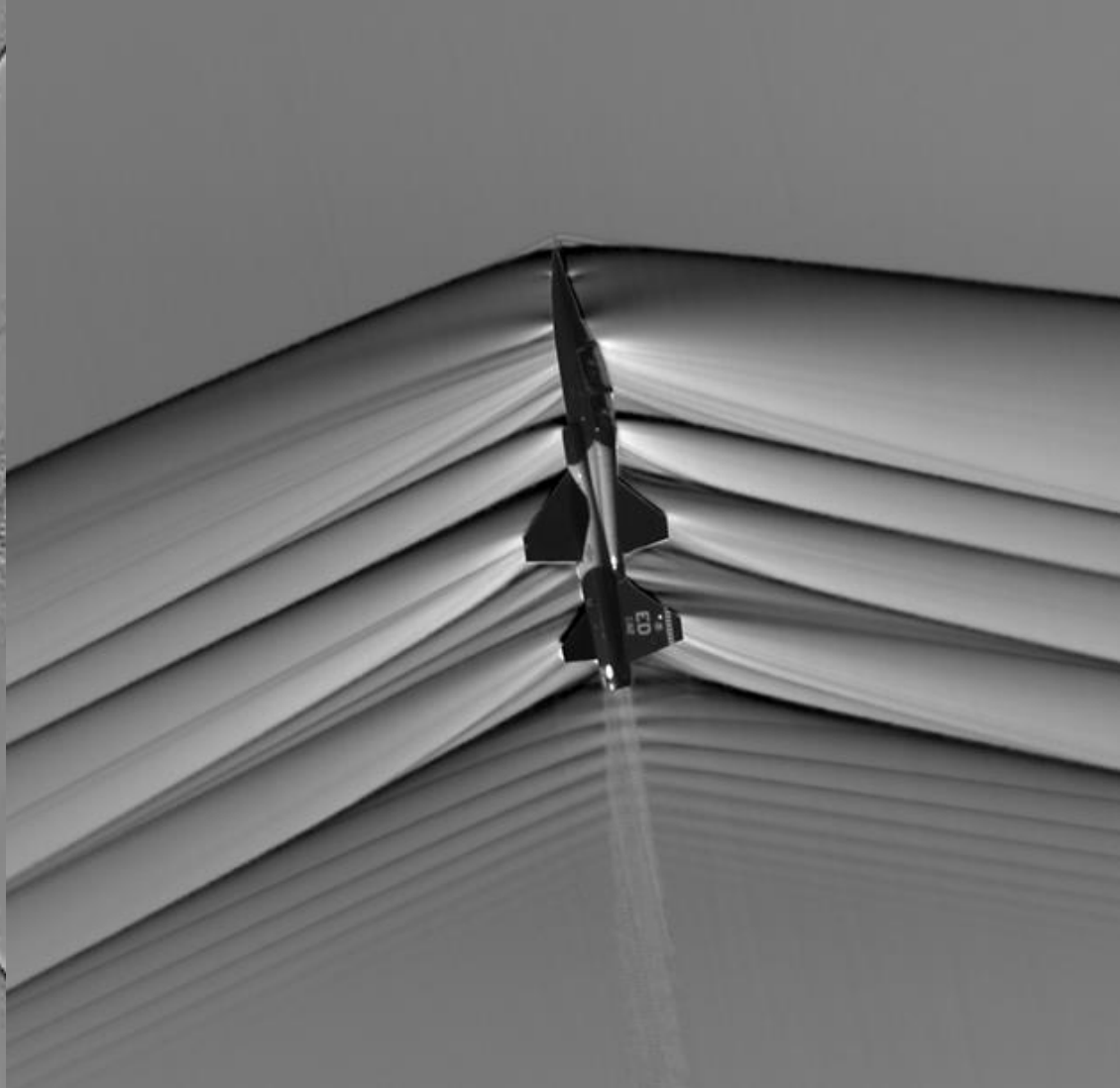
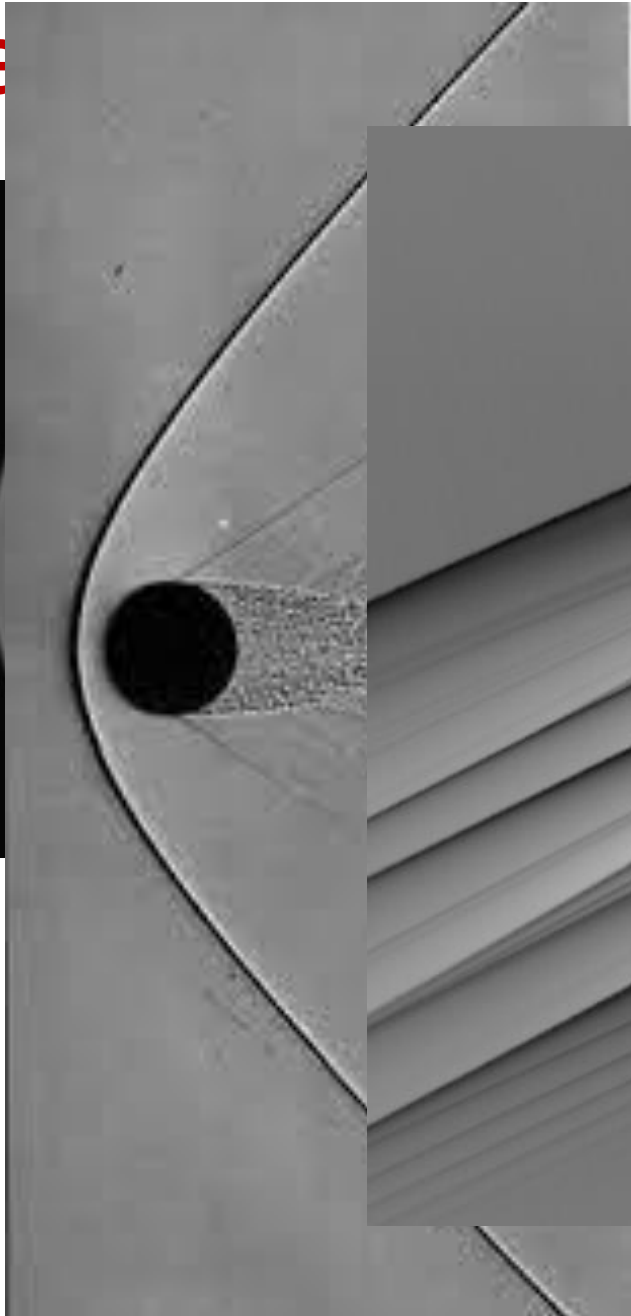
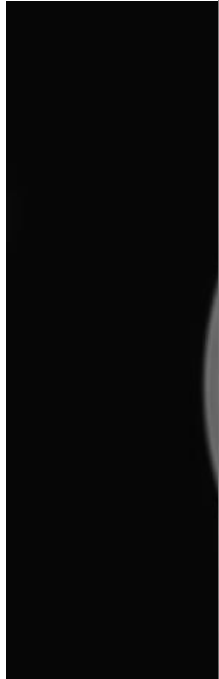
# Immagine Schlieren (strioscopia)



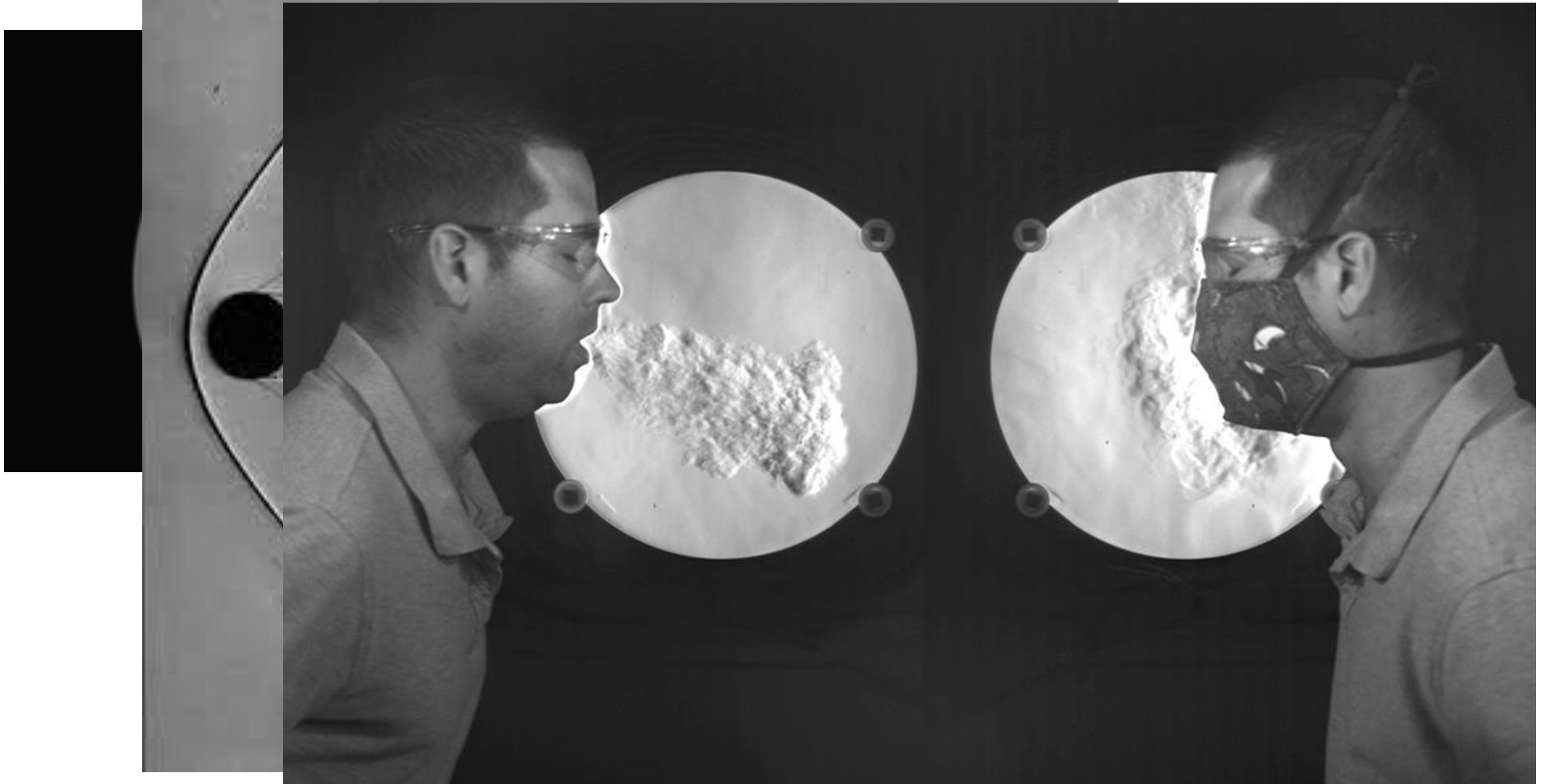
# Immunofluorescence (strioscopia)



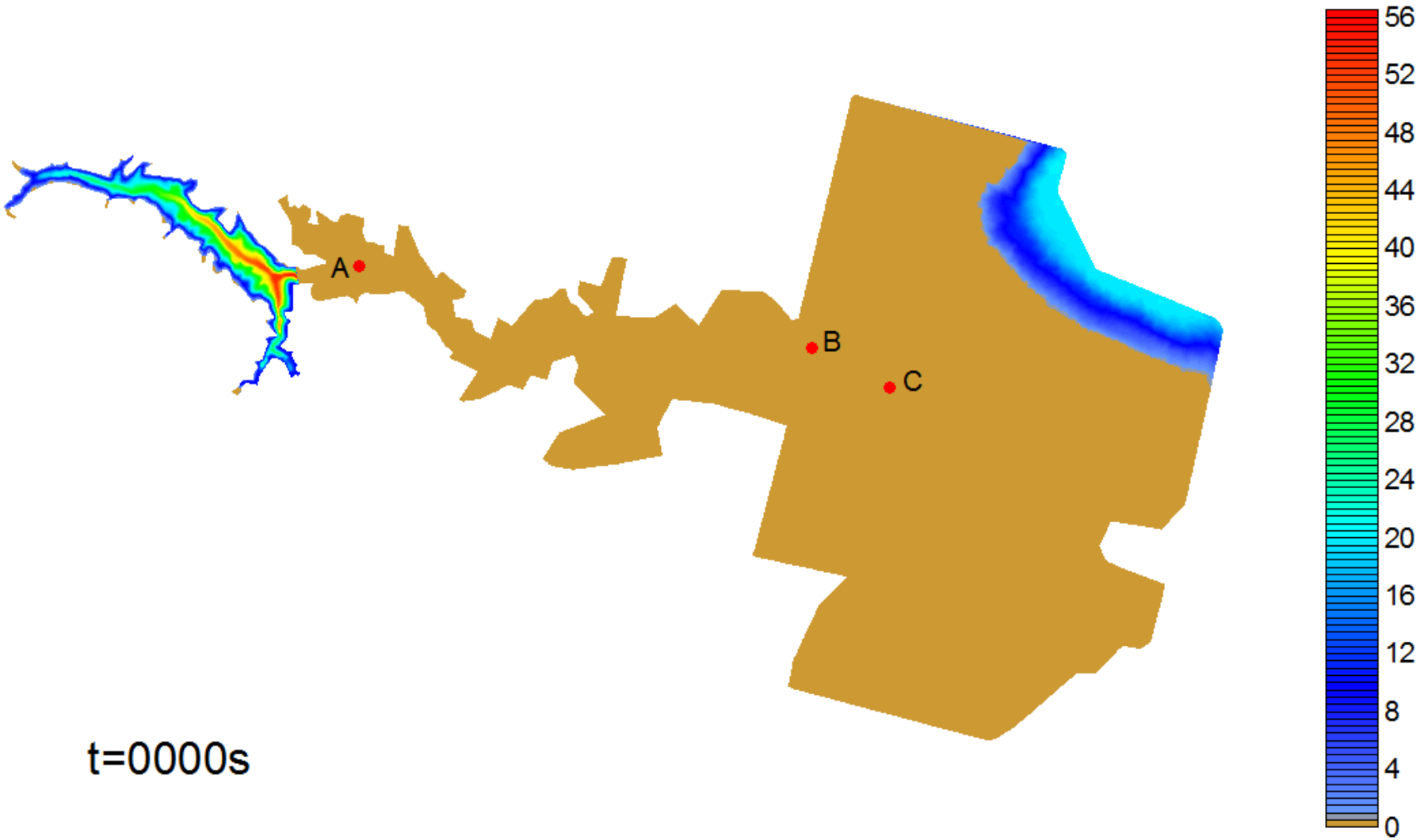
# Immagini (strioscopia)



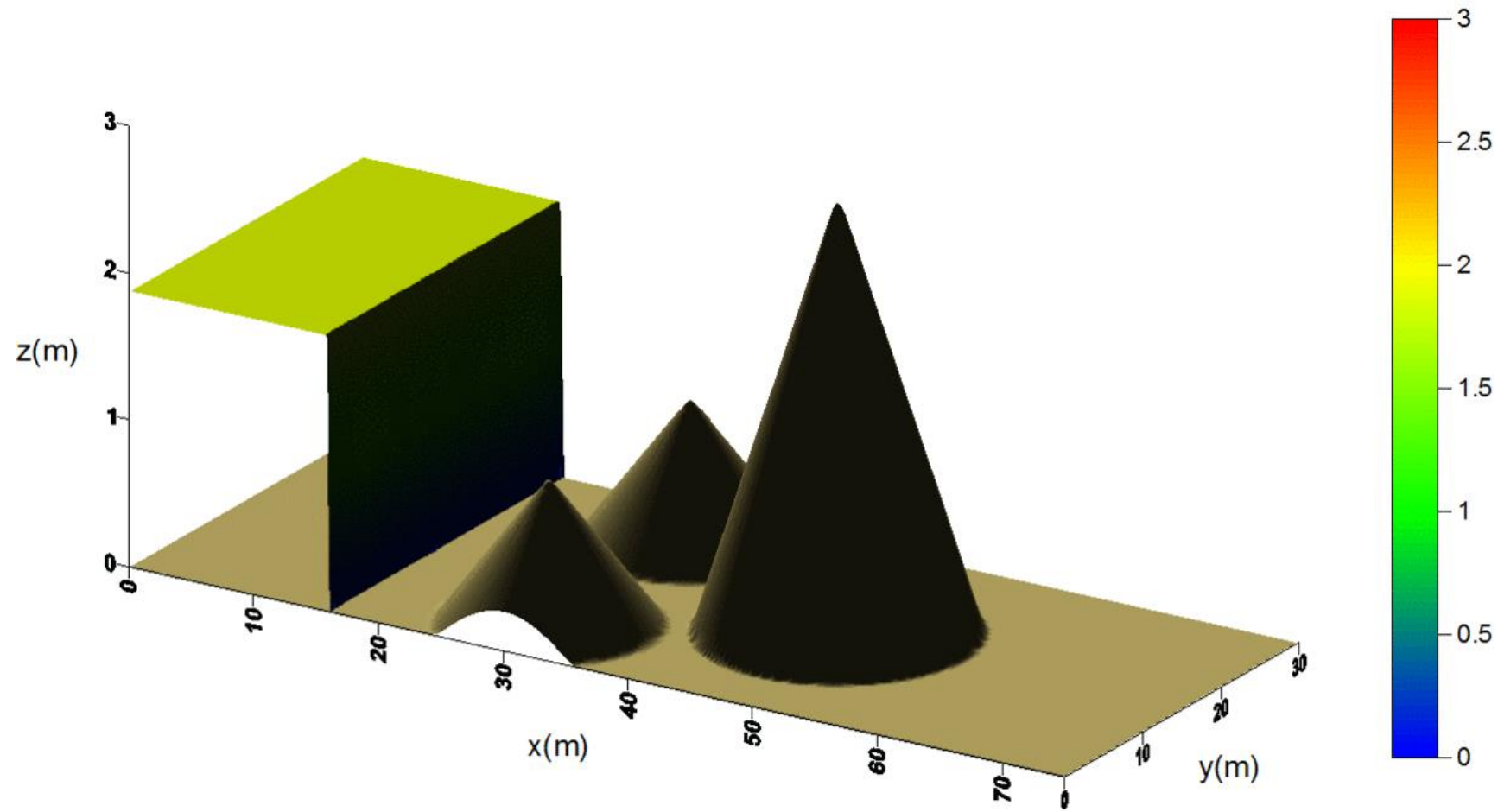
# Immunofluorescence (strioscopia)



# Elaborazioni numeriche



# Elaborazioni numeriche



$t=0s$

**Grazie per l'attenzione!**