Disputation i Teknisk Mekanik

Fredag 2020-03-27, kl 10.00

Respondent:	Zhouyang Ge
Titel:	Droppinteraktioner och suspensionsflöden
Handledare:	Prof. Luca Brandt
	Asso. Prof. Outi Tammisola
Fakultetsopponent:	Asso. Prof. François Gallaire, École polytechnique fédérale de Lausanne, Schweiz
Betygsnämnd:	Dr. Elisabeth Lemaire, Institut de Physique de Nice, Frankrike
	Dr. Martin Trulsson, Lund Universitet, Sverige
	Dr. Gustaf Mårtensson, Mycronic AB, Sverige
Ordförande:	Prof. Fredrik Lundell
Sponsorer:	EU Horizon 2020 (MICROFLUSA), VR

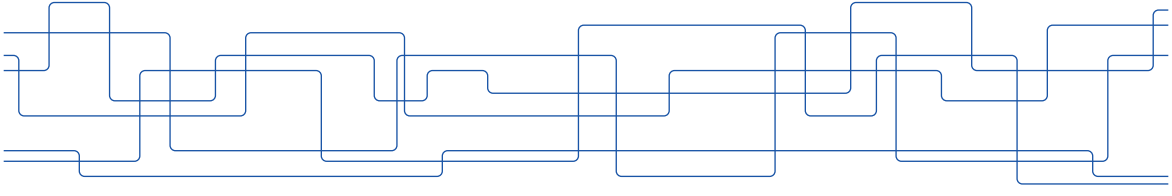
Procedure

- **The respondent will present his thesis**
- **The opponent will discuss the thesis**
- **The grading committee will ask questions**
- **The audience may ask questions**
- **The public part of the defence will be closed**
- **The result will be announced at Osquars Backe 18, floor 6**

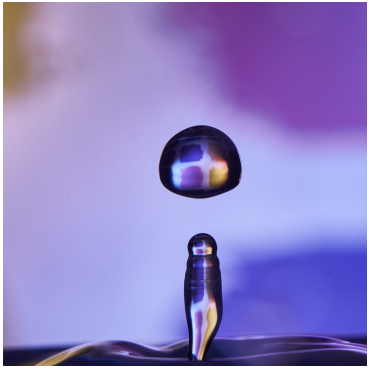
On Droplet Interactions and Suspension Flow

Zhouyang Ge

Department of Engineering Mechanics,
KTH Royal Institute of Technology, Stockholm, Sweden



But what are *droplets*?



Droplets are micron to millemetre sized liquid balls.*

BBC interview of Richard Feynman (1983).†

*Photo by Martin Brechtl on Unsplash.
†Source: https://youtu.be/P1ww1IXRfTA.

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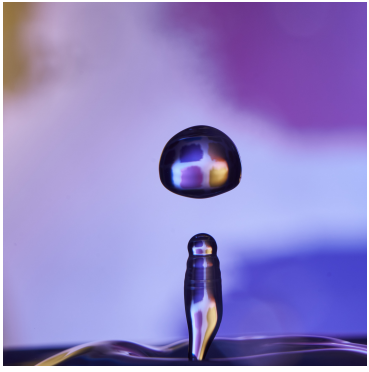

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Let's have some fun!

*Photo by Martin Brechtl on Unsplash.
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Outline

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Background, motivation and challenge

Photonic crystals (PhC) are materials patterned with a periodicity in dielectric constant and show great potential for building sophisticated optical circuitry that can route, filter, store or suppress optical signals

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Thank you for your attention.