

Doctor of Philosophy  
Doctoral thesis in Photonics Engineering

DTU Fotonik  
Department of Photonics Engineering

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# **Title: something fancy about light and photonics. A PhD thesis**

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**Co-supervisors:** Prof. John Wayne & Ass. Prof. Clint Eastwood

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# Summary

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Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

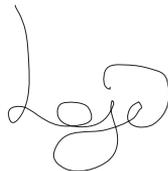


# Preface

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Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Kongens Lyngby, 24<sup>th</sup> September 2020

A handwritten signature in black ink, appearing to read 'Ross Moss', with a stylized, cursive script.

Ross Moss



# Acknowledgements

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# List of publications

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Hopefully some.

- First one
- Second one
- Maybe others



# Abbreviations

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<b>AC</b>	Alternating current
<b>BS</b>	Beam-splitter
<b>DC</b>	Direct current
<b>AVLAFTTT</b>	A very long acronym for testing the option



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# Introduction

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- Upright shape
- *Italic shape*
- *Slanted shape*
- SMALL CAPS SHAPE
- Medium series
- **Bold sereies**
- Roman family
- Sans serif family
- Typewriter family

I love to write special characters like øæå indside my T<sub>E</sub>X document. Also á, à, ü, û, ë, ê, î, ï could be nice. So waht about the “ ” chracter. What about ° é ® † ¥ ü | œ ‘ @ ö ä ¬ ‹ ‹ « © f ß ª Ω ... ζ √ ñ µ , · ¡ “ £ ∞ ™ [ ] ± ’.

Some dashes - - —, and the latex form - - —

$x = \mathbf{x}, \mathbf{x}, x, x_{1_{2_{3_4}}^{2^3^4}} \cdot \mathit{hello} * \mathit{hello} \mathit{worldmy} \mathit{world}\grave{u}\mathit{third} \mathit{world}t$

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**Figure 0.1.** This is my special figure. Aliquam ultricies, arcu quis tempor rhoncus, tellus nisl tempus justo, condimentum tempor erat odio ac purus. Integer quis ipsum felis. Aliquam volutpat, leo ac consequat egestas, lectus lacus adipiscing quam, id iaculis dolor quam in erat. Phasellus tempor interdum arcu quis vestibulum

h		h	h
e		e	e

**Table 0.1.** This is a caption to the table

# Part I

## Theoretical concepts



# CHAPTER 1

## Long chapter

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My favorite RFC is [2]. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Sans serif testing:

- $\pi$
- 
- $\pi$
- *italic*
- ***bold italic***
- **bold**
- teletype
- Math Sans Serif
- Text Sans Serif

### 1.1 Heading test

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written



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### 1.1.1 Test 2

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



## Part II

# Experimental techniques and results



# CHAPTER 2

## Experimental bla bla

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My favorite RFC is [2]. This is a beam-splitter, Beam-splitter (BS), hyper-ref test.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information?

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**Protocol 1** A cake

*Ingredients.* Those you like the most.

*Preparation.* Mix the ingredients at your best.

*Baking.* Check it by eye.

*Final result.* Should be good.





# Appendices



# APPENDIX **A**

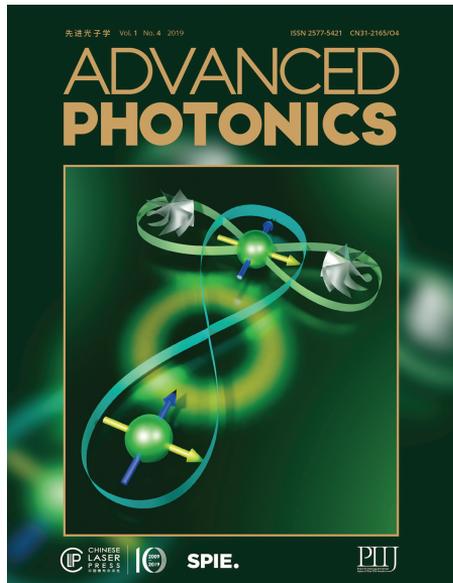
## Journal articles

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how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

In case you want to print your (hopefully) published papers in your phd thesis, this is a way to do it:



## About the cover: *Advanced Photonics* Volume 1, Issue 4

The image on the cover for *Advanced Photonics* Volume 1, Issue 4, provides a pictorial view of the hybrid two-photon entangled state. Quantum entanglement is present between the polarization of a first photon (bottom) and the vector vortex state of a second photon (top). The second photon has been transmitted through an air-core fiber and exhibits internal

correlations between its orbital angular momentum and its polarization state

The image is based on the research presented by Daniele Cozzolino et al. in their article, "Air-core fiber distribution of hybrid vector vortex-polarization entangled states," *Advanced Photonics*, 1(4), 046005, doi: [10.1117/1.AP.1.4.046005](https://doi.org/10.1117/1.AP.1.4.046005).



# Bibliography

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- [1] D. Adams, *The hitchhiker's guide to the galaxy*. Hitchhiker's Guide to the Galaxy Series, Harmony Books, 1980.
- [2] D. Waitzman, "IP over Avian Carriers with Quality of Service." RFC 2549 (Informational), 04 1999.

