

# Structured Light: Tailored for purpose

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## Abstract

Structured light is a term used to describe optical fields that have been tailored in their spatial intensity, phase and polarisation distributions, and may even be extended to include other less known degrees of freedom too. Structured light has found many applications, including optical manipulation in biological systems, laser materials processing for better resolution, quality and efficacy, seeing smaller objects in microscopy, and new approaches to designing lasers, to name a few, spanning both fundamental science and applications alike. In this talk I will explore how to create and manipulate exotically structured light fields with a modern optics toolkit, and cover some example applications in classical and quantum optics.

**11:30 a.m. - Monday March 21<sup>st</sup>, 2022**

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