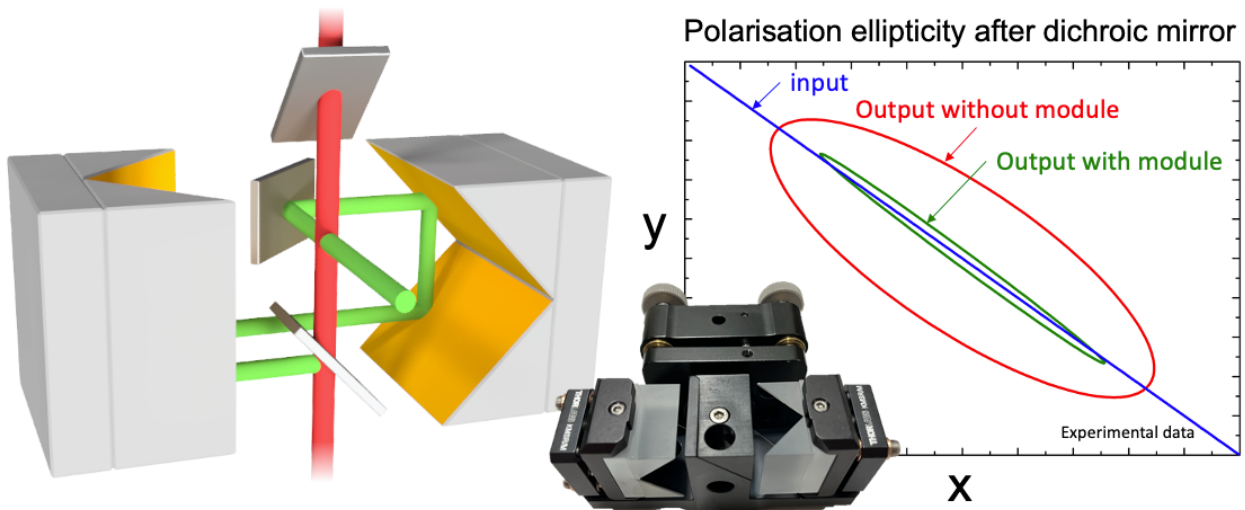




## Licensing Opportunity

### Polarisation maintaining beam splitting module for optical systems



#### Application

Optical techniques such as Raman spectroscopy, fluorescence or multiphoton microscopy, interferometry or quantum optics require a fine control of the light polarisation state. Optical elements like mirrors, beam-splitter, dichroic mirror, filters, are most of the time used far from normal incidence, inducing a distortion of the polarisation. This invention solves this problem in a simple and efficient way.

#### Patent Pending

EU patent application 23178209.5  
Priority : June 8<sup>th</sup>, 2023  
Assignee : University of Geneva  
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#### Invention

This patented invention consists of a special geometry for assembling standard mirrors, dichroic mirrors, or plate beam splitters such that it preserves the polarisation state of the light when reflected and/or transmitted.

Our design preserves the crossing of the initial-transmitted and reflected beam that makes it interchangeable with the standard optical element.

Optical module is compact enough to fit in the volume of standard fluorescence filter cubes.