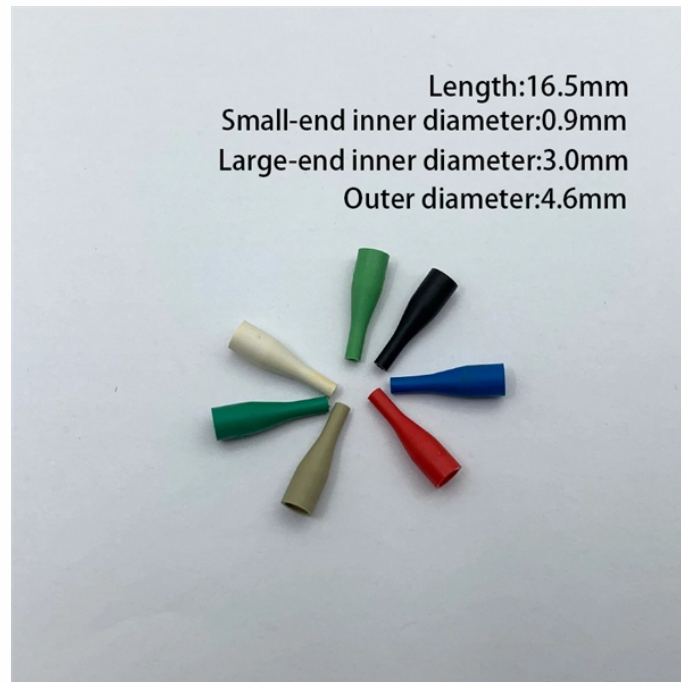


# Dynamic beam distribution via beam splitter



## Overview

We propose a dynamic beam splitter incorporating all-dielectric metasurface in an elastic substrate under external mechanical stimulus of stretching. The optical behavior at 720 nm wavelength shows that it can be changed from a pure optical-diode-like behavior to a dynamic beam splitter. A beam splitter is a common device for dividing an incident beam into two separate beams. Their bulky size, right-angled output direction, and fixed splitting ratio greatly limit the design of optical arrangement and. This paper demonstrates the realization of an extraordinary beam splitter, exhibiting one-way beam splitting amplification. Such a dynamic beam splitter operates based on nonreciprocal and synchronized photonic transitions in obliquely illuminated space-time-modulated (STM) slabs which impart the. Beam splitters are an indispensable part of optical measurements and applications.

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To study the behavior of their strong mode mixing dynamics, we consider variable beam splitters and their dynamics using Wigner's phase space distribution,  $W$ , the evolution of which is governed by the ...



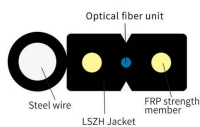
Here, an all-dielectric metasurface composed of symmetric nano-rings as a beam splitter are designed by Finite-Difference Time-Domain method.



We specifically highlighted aspects of the quantum phase space dynamic which our analysis has unearthed as being experimentally accessible when using variable beam splitters and which, in ...



We demonstrate a multiple-output and arbitrary power-ratio beam splitter on all-dielectric metasurface. An illustrative 5-output beam splitter is prepared and m



Here, an all-dielectric metasurface composed of symmetric nano-rings as a beam splitter are designed by Finite-Difference Time-Domain method.



The dynamic regulation of beam splitting originates from structural period changes under the external mechanical stretching stimulus. The simulation results show that the designed ...



In this paper, in order to increase the channels of beam splitter, a new design method of phase profile is proposed to realize a flat multi-channel beam splitters based on dielectric ...



Beam splitters are an indispensable part of optical measurements and applications. We propose a dynamic beam splitter incorporating all-dielectric metasurface in an elastic substrate under external ...



We demonstrate a coherent and dynamic beam splitter based on light storage in cold atoms.



This paper demonstrates the realization of an extraordinary beam splitter, exhibiting one-way beam splitting amplification.

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