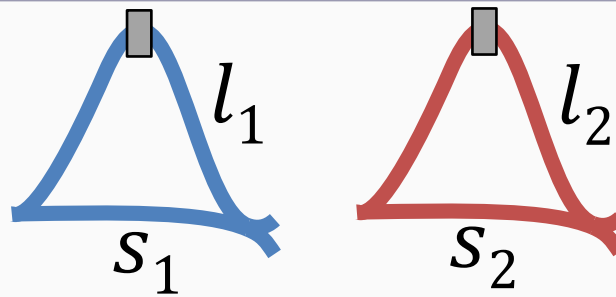


Substantial cost reduction for assembly of identical interferometers.

We developed a simple method for assembly and operation of arbitrarily many identical fiber-based Michelson interferometers. In our setup no cost-intensive electro-optic components for phase adjustment are required leading to a time and cost efficient assembly. In short, these interferometers can be manufactured efficiently and many applications become economically feasible.



$$(l_1 - s_1) - (l_2 - s_2) \rightarrow 0$$

COMMERCIALIZATION OPPORTUNITIES

There are various opportunities for cooperation between the industrial partner and TU Darmstadt: from an exchange with the know-how carriers of the technology to a close cooperation in case of further development needs. The technology is protected by intellectual property rights and can be used by the industry partner after a sale or licensing agreement.

9 Product ready to launch

8

7 Prototype

6

5

4 Proof of Concept

3

2 Idea

1

The technology development is at TRL 9: The method has already been used several times for the QKD systems of the Laser and Quantum Optics group at the Institute of Applied Physics.

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