

castor

About Castor Optics



Caroline Boudoux, ing, PhD



Nicolas Godbout, ing, PhD

founded in **2013**
with investors Alex Cable &
Normand Brais

bring to market
innovative fiber optics
coupler technology



Strategic partnership with **THORLABS**

sales & distribution exclusive fiber
couplers

manufacturing transfer for high
volumes

Team




Kathy Beaudette, ing, PhD
Business Development
Director

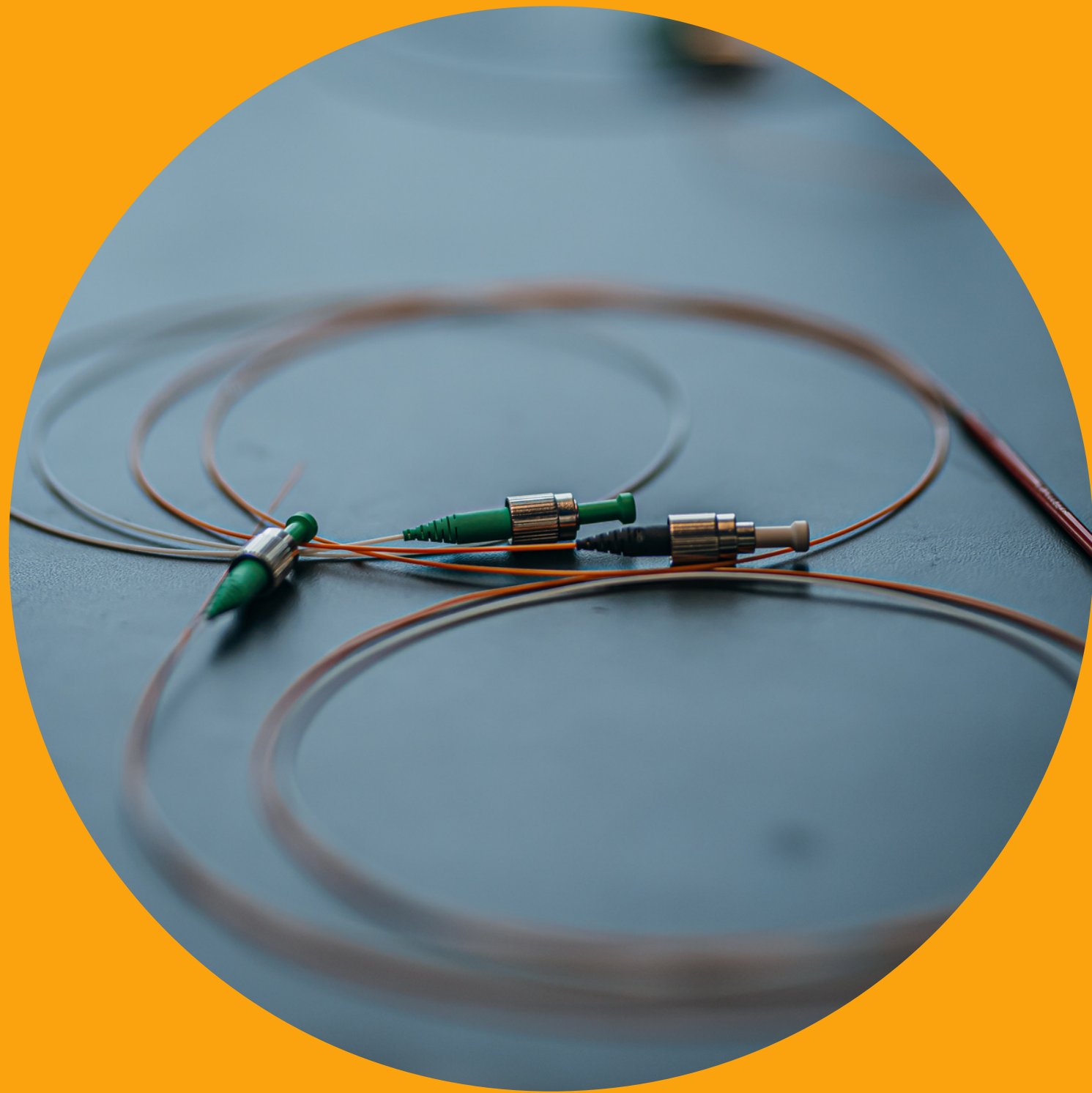


Lucas Majeau, ing
Operations
Director

3 scientists
2 senior technologists
1 engineering intern



3 product lines based on the same
core technology:
fiber optics fusion & tapering



All aim to

increase

the **signal-to-noise ratio**
of a given detection system

To probe matter

further

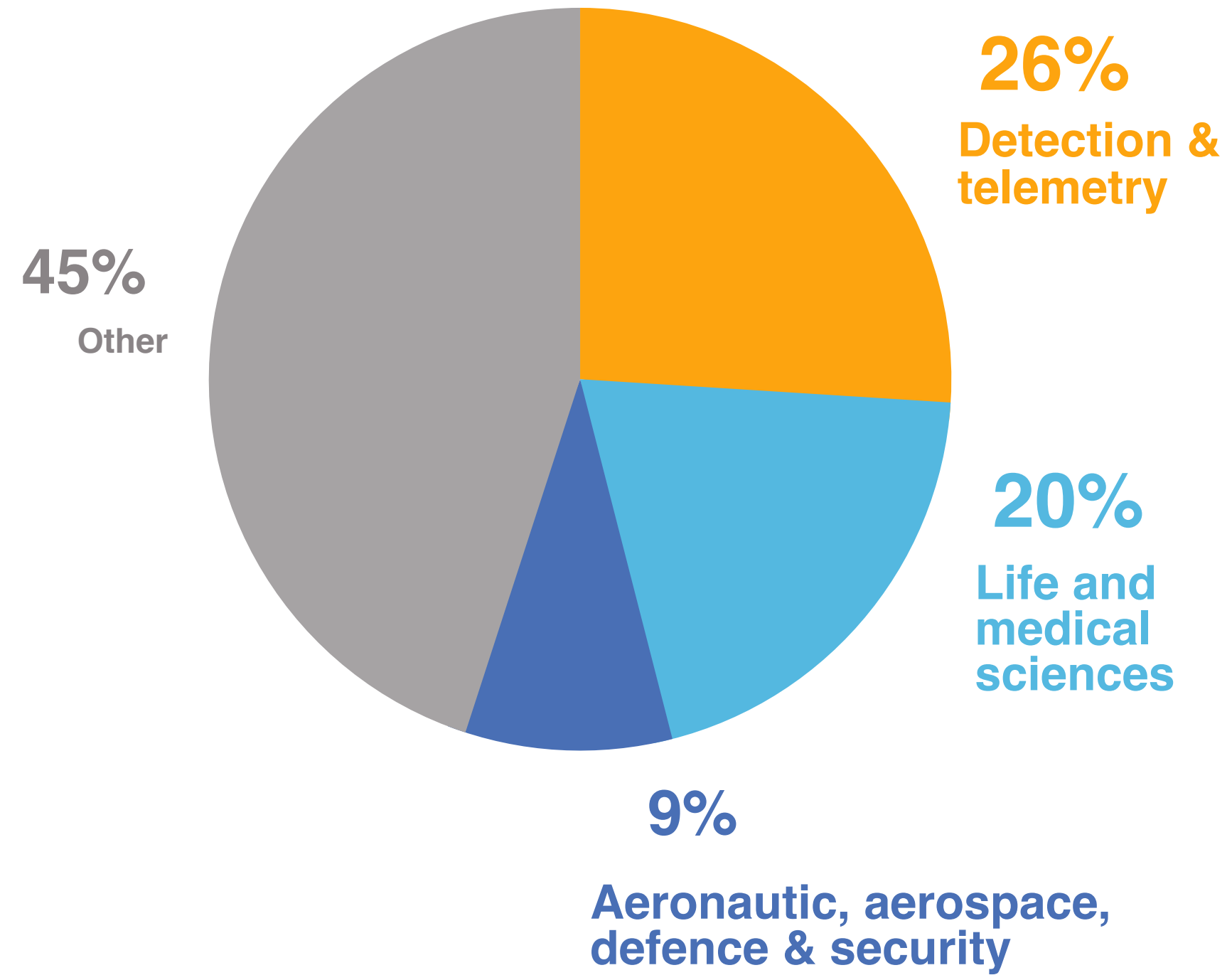
faster

at lower concentrations

castor advantage

- ✓ superior optical quality & compact solutions
- ✓ licensed and proprietary methods and processes
- ✓ processes ready for high volume manufacturing
- ✓ system design & integration support

Markets

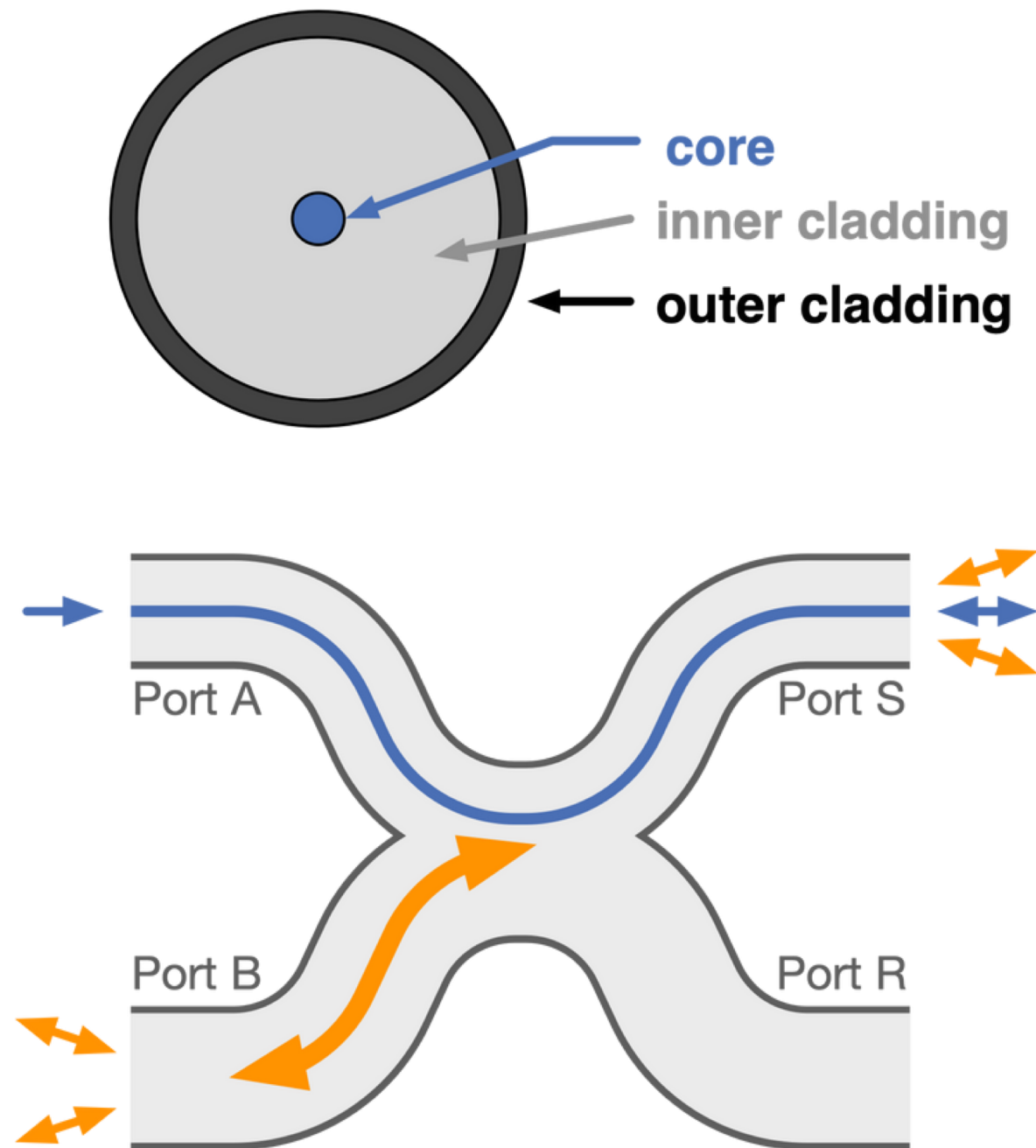


Product lines

- double-clad fiber coupler
- multimode circulator
- photonic lantern
- modules



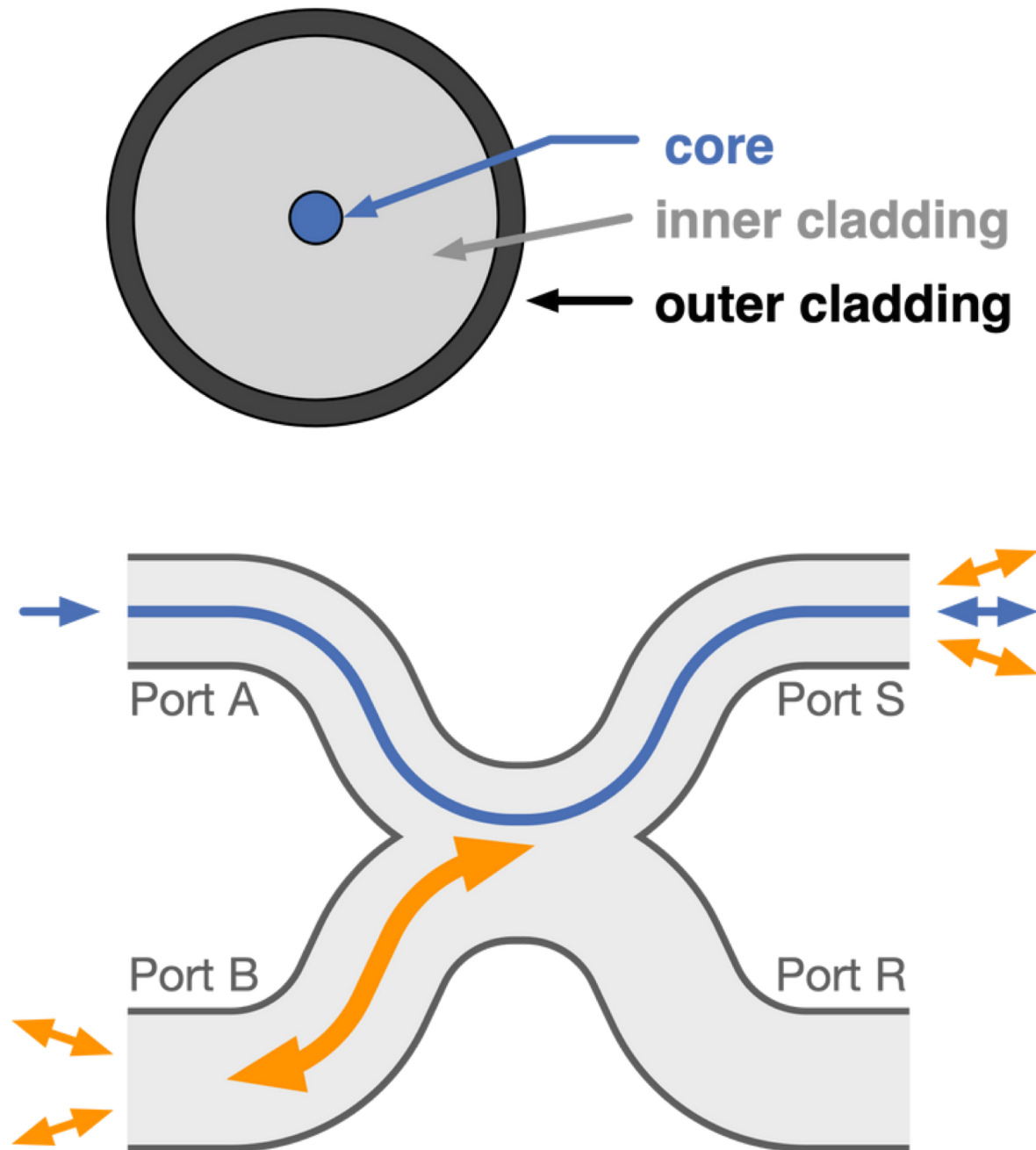
Double-clad fiber coupler



- illuminate with & collect **SM signal**
- injecting and/or extracting **MM signal**

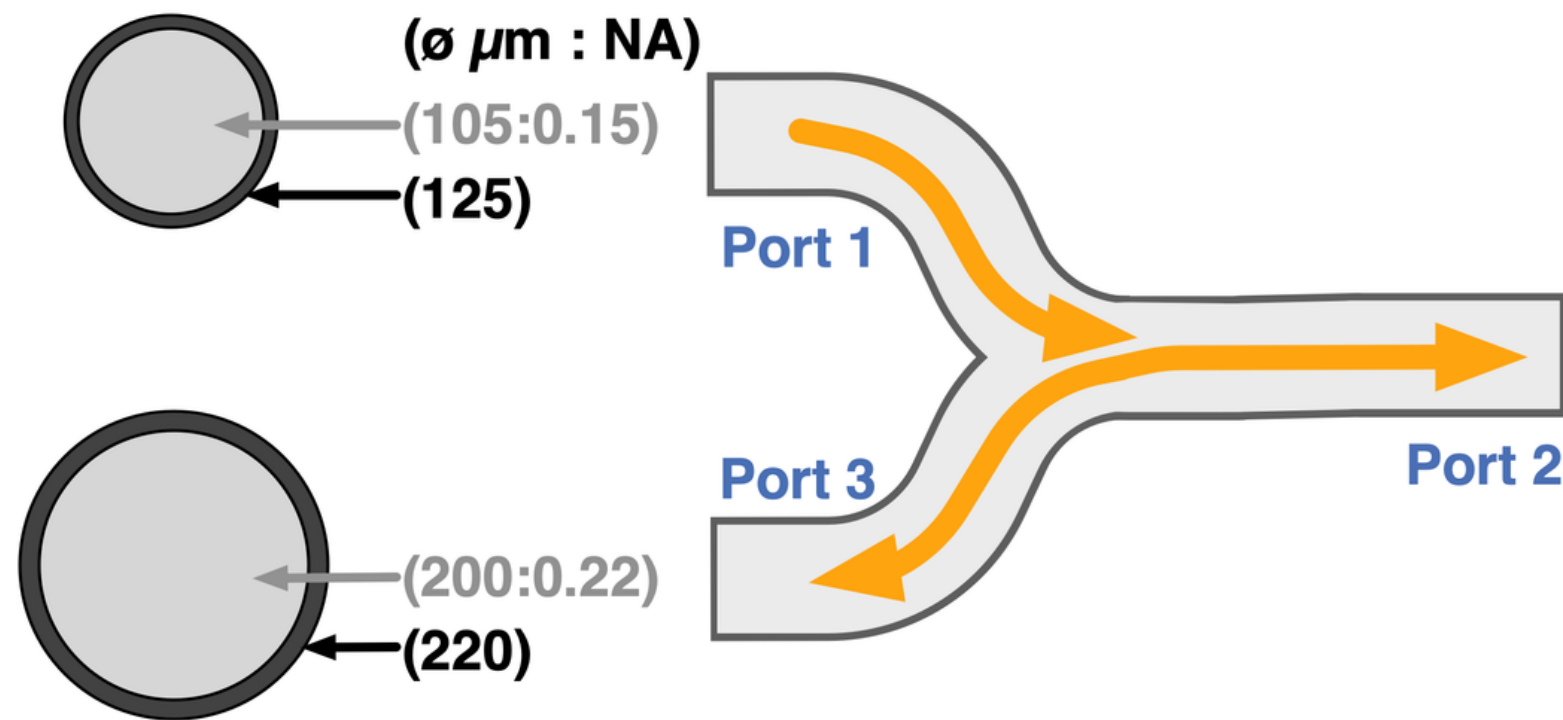
applications in LIDAR, biomedical instrumentation

Double-clad fiber coupler



Product line	SM wavelength range	SM insertion loss	MM extraction	MM injection
LE2	1060 nm 1300/1550 nm	< 0.5 dB	>90%	-
SE	530 nm 780 nm	< 0.5 dB	>70%	-
LQ	1300/1550 nm	< 0.5 dB	>80%	>60%

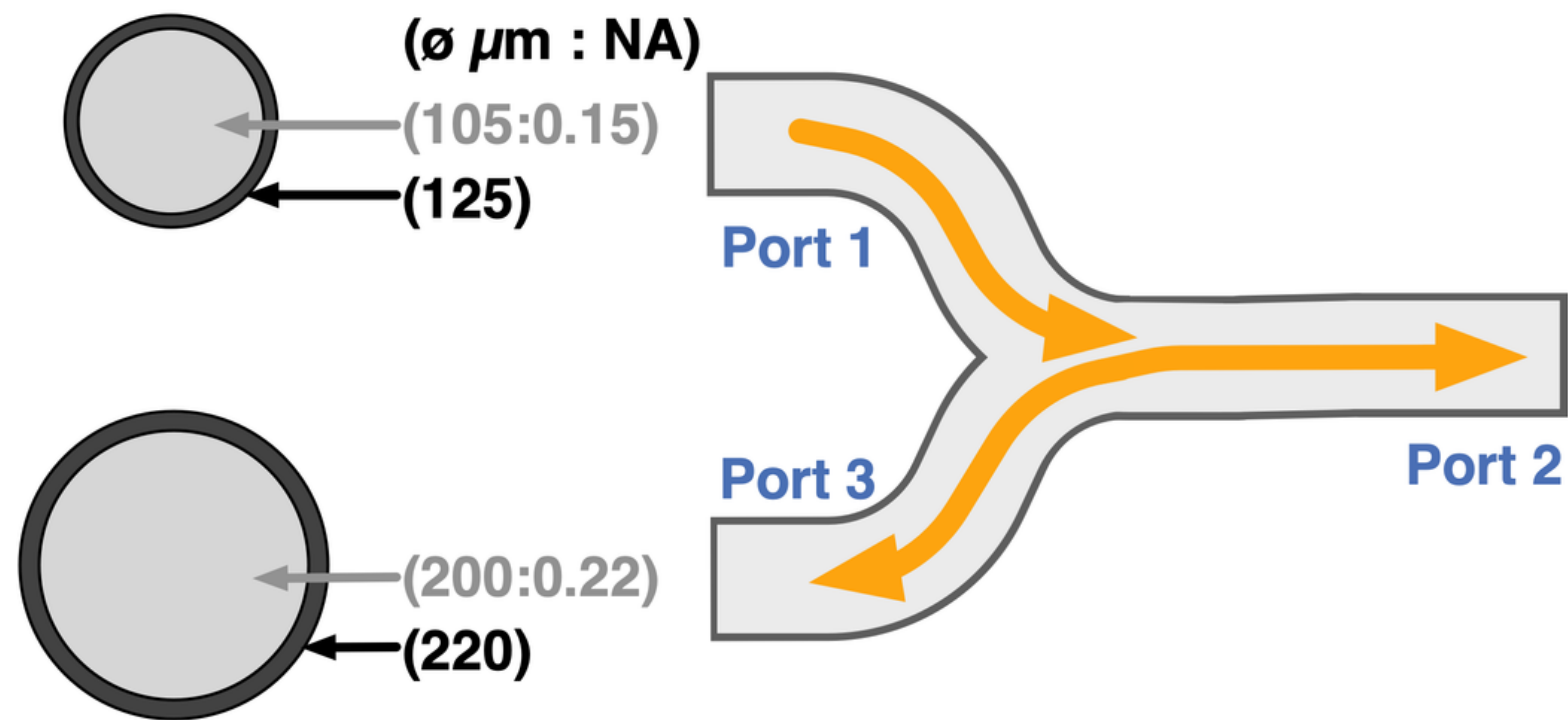
Multimode circulator



efficient multimode **illumination**
and **collection** through a single
fiber

applications in sensing, fluorescence
& biomedical instrumentation

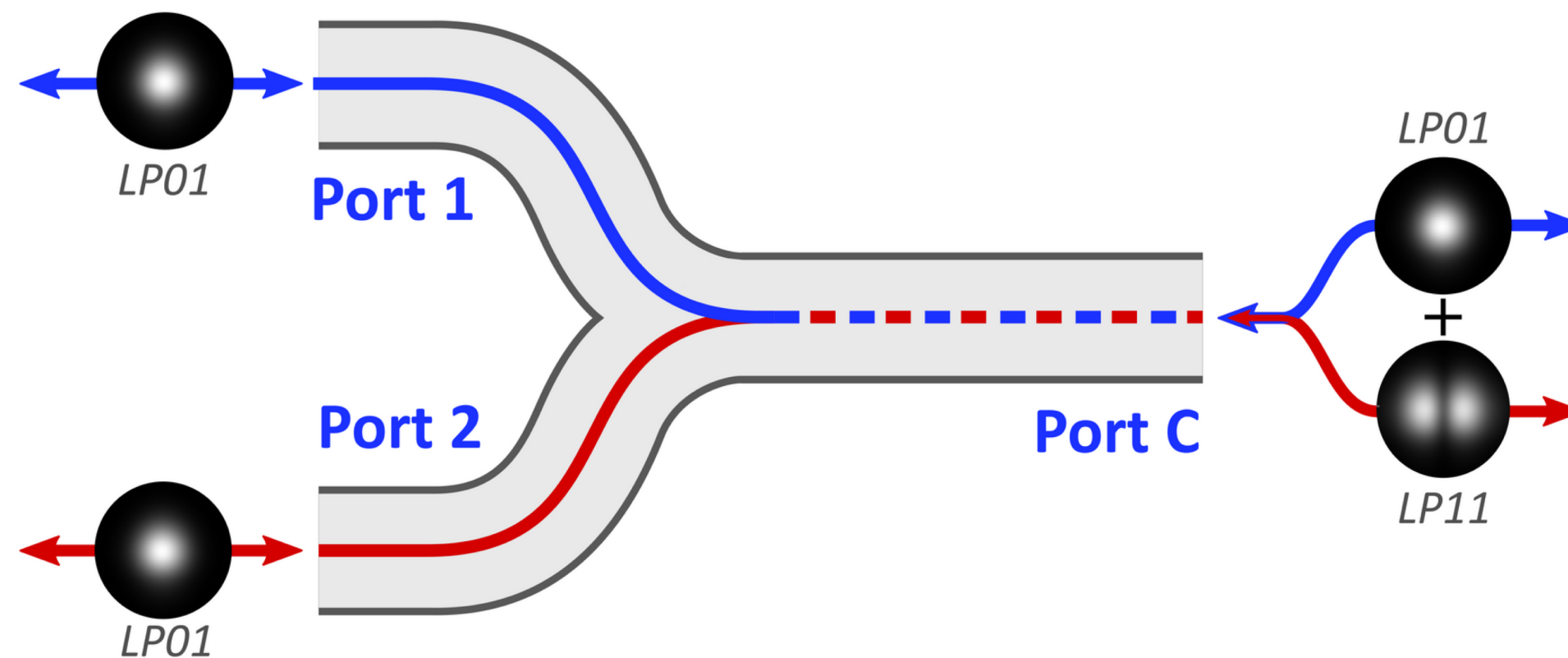
Multimode circulator



Fiber combination	MM transfer/transmission	Directivity	Isolation
50um 0.22/ 105um 0.22	70%/80%	>40dB	>8dB
105um 0.15/ 200um 0.22	80%/90%	>35dB	>9dB
200um 0.22/ 400um 0.39	80%/80%	>35dB	>12dB

Photonic lantern

Mode-selective de/multiplexing of LP01 and LP11
Low insertion loss, high isolation, compact packaging



applications in LIDAR, OCT and quantum
photonics

Service offering

- development & prototyping of fiber solutions
- system integration consulting
- sub-system module assembly





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Find our products on [castoroptics.com](https://www.castoroptics.com) or Thorlabs' catalog

Confidentiel

