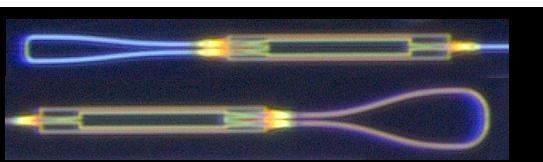


CASE STUDY

Integrated Optical Interferometry

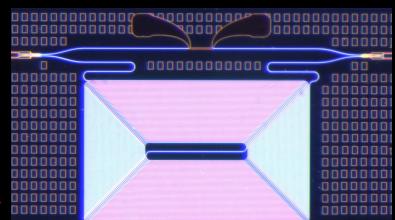


Sagnac interferometers

- ✓ No precise optical alignment required
- ✓ Very compact and lightweight device
- ✓ Robust versus environmental variations
- ✓ Low-cost, high volume production



Courtesy:
ICFO
The Institute of Photonic Sciences

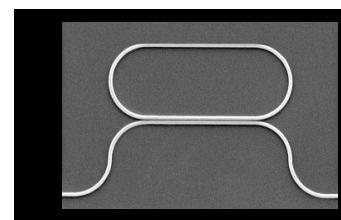


Mach-Zehnder interferometers

Measure rotations

Gyroscopes
Inertial guidance systems

Gires-Tournois etalon



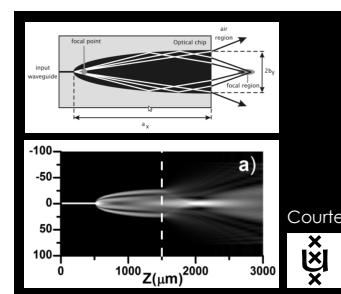
Measure distances

Vibrometers
Laser range finders
Surface irregularities
Metrology and calibration

Integrated mirrors



Fizeau structures

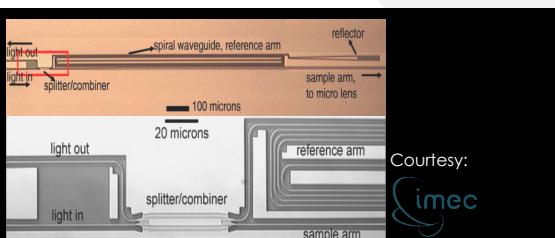


Measure refractive index

Immunoassay detection
Process test structures
Chemical biosensors

Other uses

Optical Coherence Tomography
Frequency discrimination
Astronomical imaging
Quantum optics



Michelson interferometer

Contact us for any optical integration requests!

www.vlcphotronics.com

