



Fiche signalétique / Identification sheet

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Institut / Institute	Institut Systèmes industriels
Fonction / Function	Professeur HES

COMPÉTENCES SPÉCIFIQUES / SPECIFIC COMPETENCES

- ▶ Lens design
- ▶ Heterodyne interferometry

DOMAINES DE RECHERCHE / RESEARCH DOMAINS

- ▶ Design of compact optical instruments
- ▶ Laser Doppler flowmetry
- ▶ Scattering in biological tissue

TRAVAUX EXEMPLAIRES / ILLUSTRATIVE PROJECTS

- ▶ Design of a compact and cost effective instrument to measure transmission of liquid at 9 visible wavelengths.
- ▶ Development of a new very compact patented refractive index measurement system for an embedded system with Bluetooth capabilities.
- ▶ Development of an automated flowmeter based on previous system, in order to simplify the data acquisition and the analysis of the pertinence of the collected data.
- ▶ Development of a new optical system to measure scattering properties of cultivated cells of the retinal pigment epithelium.
- ▶ Design of the first order with the aid of the Delano or y-ybar diagram. Development of a software and specific course for that aim.