

# SUCCESS workshop

« Lyon 2012 »



Wellcome in UCBL

# Strengthening **Ukraine** and EU research cooperation in the field of **Material Sciences**

<b>Institute for Scintillation Materials</b>	<b>ISMA</b>	<b>Ukraine</b>
Université Claude Bernard Lyon 1	UCBL (LPCML)	France
Inno-TSD	Inno	France
TBI Kharkov Technologies	KT	Ukraine



Lyon 1



Laboratoire de Physico-Chimie des Matériaux Luminescents  
Chemical-Physics of the Luminescent Materials  
(<http://pcml.univ-lyon1.fr/>)  
4 Teams

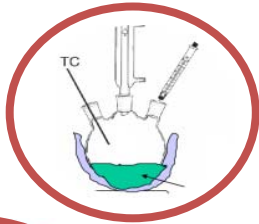
<b>CNRS research staff</b>	<b>9</b>
<b>Lyon University research staff</b>	<b>24</b>
<b>Engineers and technical staff</b>	<b>13</b>
<b>PhD students</b>	<b>~ 20</b>
<b>Post-docs , visitors, ...</b>	<b>~ 10</b>
<b>TOTAL</b>	<b>~ 76</b>

Head of the laboratory: Marie-France Joubert

# Study and understand the properties of optical materials: from bulk to the nanostructure

## Elaboration

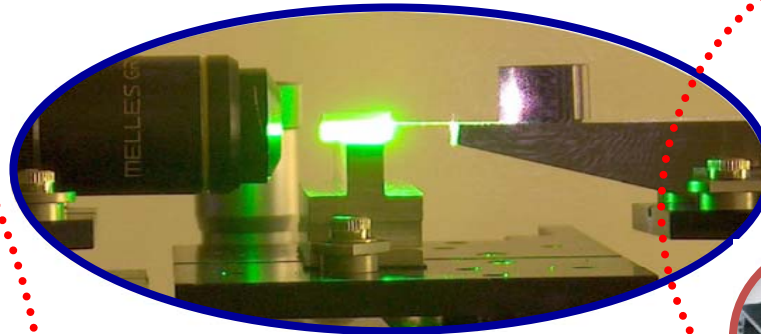
Nanoparticules



films



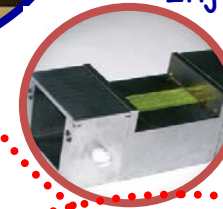
crystals



## Applications



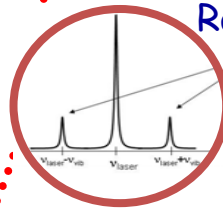
Injected nanohybrides



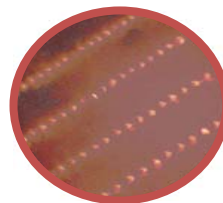
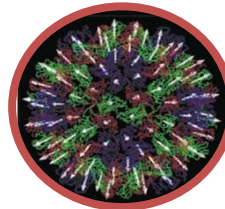
$\alpha$  detection

## vibrational spectroscopy

Raman, Brillouin



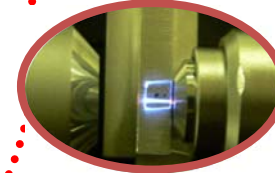
virus



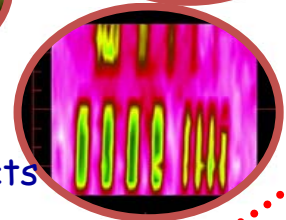
UV Poling on glasses

## Luminescence spectroscopy

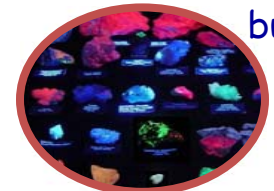
waveguides



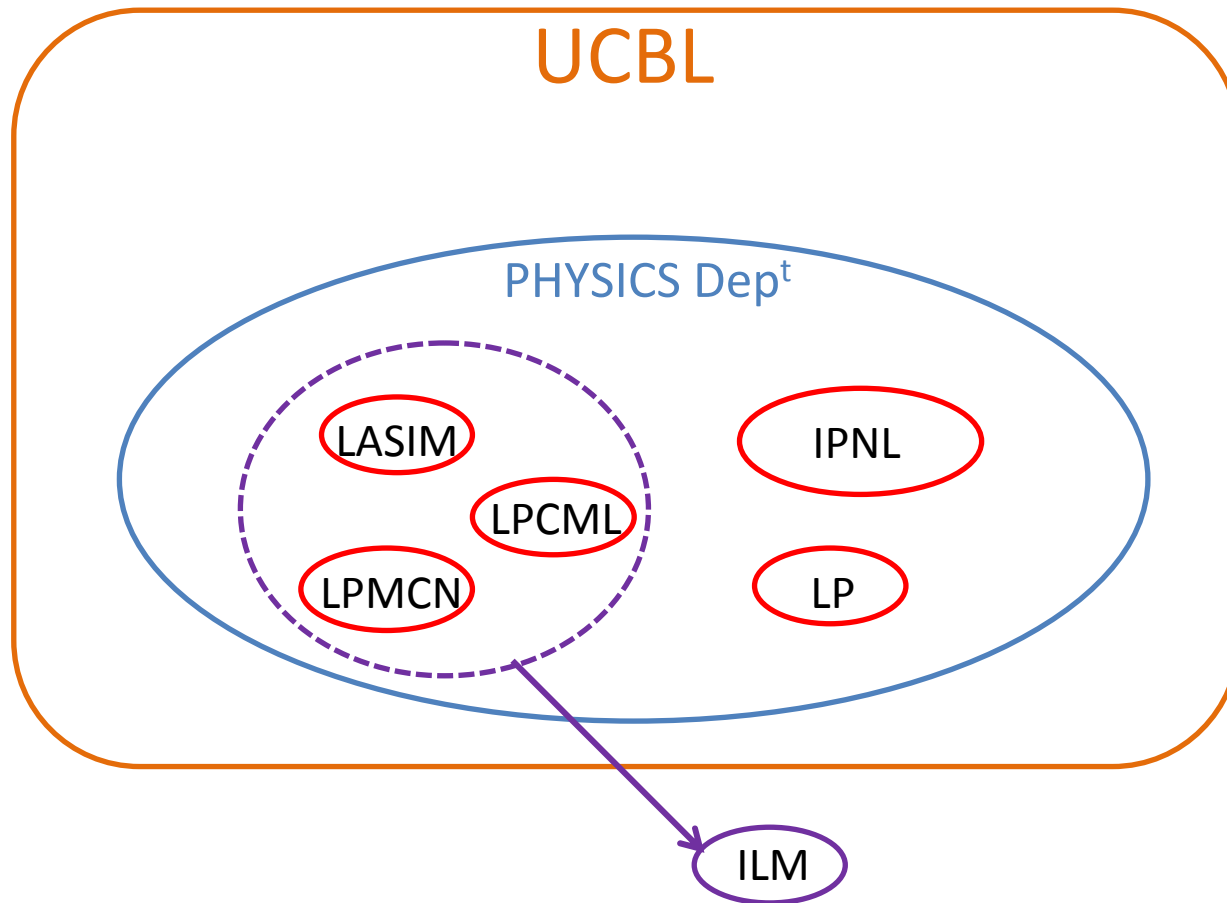
Nano objects



bulks



# LPCML research structure evolution





Lyon 1

# ILM

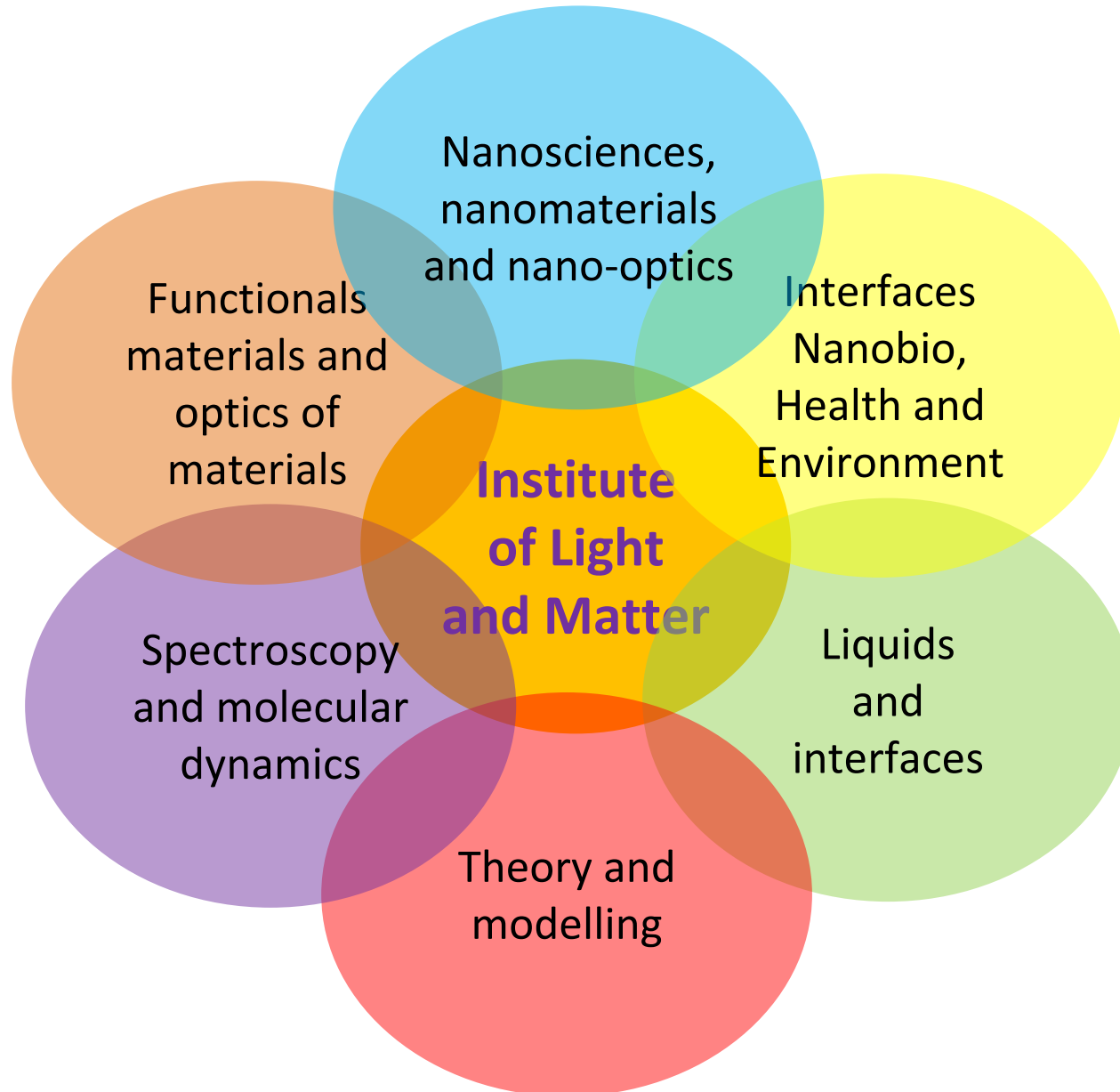


Institut Lumière Matière  
Institute of Light and Matter  
(<http://ilm.univ-lyon1.fr/>)  
21 Teams

<b>CNRS research staff</b>	<b>48</b>
<b>Lyon University research staff</b>	<b>91</b>
<b>Engineers and technical staff</b>	<b>51</b>
<b>PhD students</b>	<b>~ 75</b>
<b>Post-docs , visitors, ...</b>	<b>~ 35</b>
<b>TOTAL</b>	<b>~ 300</b>

Head of the institute: Marie-France Joubert

# Synergy physics, chemistry and their interfaces



Wellcome in future ILM