

INTERNATIONAL MASTER THESIS PROJECTS

Topic & Application	Name Lab	Credits	Contact person
<p>New organic synthetic methodology applied to medicinal chemistry</p> <p>Apply</p>	<p>Molecular Design and Synthesis-Laboratory for organic synthesis</p>	45-60	Wim Dehaen (wim.dehaen@kuleuven.be)
<p>Wave dynamics in ion-electron (and pair) plasma's</p> <p>Apply More info</p>	<p>Centre for Mathematical Plasma Astrophysics</p>	45-60	Rony Keppens (Rony.keppens@kuleuven.be)
<p>Provenancing raw materials for ancient glass/ceramics production (petrography/geochemistry/mineralogy: focus on geological analysis techniques and laboratory approaches)</p> <p>Apply</p>	<p>Earth & Environmental Sciences: centre for Archaeological sciences</p>	45-60	Patrick Degryse (Patrick.degryse@kuleuven.be)
<p>Genetically-encoded biosensors for novel targets based on recombinant binders and fluorescent proteins</p> <p>Apply</p>	<p>Lab of Nanobiology</p>	45-60	Peter Dedecker (Peter.dedecker@kuleuven.be)
<p>Ultrastructural imaging of neuronal connectivity in the brain</p> <p>Apply</p>	<p>Lab of Nanobiology</p>	45-60	Peter Dedecker (Peter.dedecker@kuleuven.be)
<p>Correlative measurement of protein conformational dynamics at the single-molecule level</p> <p>Apply</p>	<p>Lab of Nanobiology</p>	45-60	Peter Dedecker (Peter.dedecker@kuleuven.be) ???

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<p>Multiferroic materials – electrical control of magnetism at the interfaces between magnetic metals and ferroelectric oxides</p> <p>Apply More Info</p>	Nuclear Solid State Physics	45-60	<p>Kristiaan Temst (kristiaan.temst@kuleuven.be) Margriet Van Bael (margriet.vanbael@kuleuven.be) André Vantomme (andre.vantomme@kuleuven.be)</p>
<p>The metal-insulator transition in doped oxides as unraveled by atom probe tomography</p> <p>Apply More Info</p>	Nuclear Solid State Physics	45-60	<p>Claudia Fleischmann (Claudia.fleischmann@kuleuven.be) André Vantomme (andre.vantomme@kuleuven.be)</p>
<p>Determine the electric field distribution around a nano-scale field emitter: The case of atom probe microscopy</p> <p>Apply More Info</p>	Nuclear Solid State Physics	45-60	<p>Claudia Fleischmann (Claudia.fleischmann@kuleuven.be) André Vantomme (andre.vantomme@kuleuven.be)</p>
<p>Optimizing silicon carbide single photon sources for implementation of qubits</p> <p>Apply More info</p>	Nuclear Solid State Physics	45-60	<p>André Vantomme (andre.vantomme@kuleuven.be)</p>