

## LMAPR2015

2013-2014

## Physics of Nanostructures

5.0 credits	37.5 h + 22.5 h	1q
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## Université Catholique de Louvain - COURSES DESCRIPTION FOR 2013-2014 - LMAPR2015

	3.2 Giant magnétoresistance : principle, CIP and CPP geometries, spin accumulation 3.3 Tunnel magnetoresistance : principle, magnetic tunnel junctions 3.4 Magnetic nanowires : synthesis methods, spin dependent magnetotransport 3.5 New routes in spin electronics : spin transfer, spin electronics and semiconductors, molecular spintronics 3.6 Applications and prospects  Méthodes : Plenary lectures, project-based learning.
Other infos :	MAPR 1491 (Complements of Physics) or a similar course. MAPR 1492 (Material Physics) or a similar course.
Cycle and year of study :	> Master [120] in Chemical and Materials Engineering > Master [120] in Electro-mechanical Engineering > Master [120] in Physical Engineering > Master [120] in Electrical Engineering
Faculty or entity in charge:	FYKI