

5.00 credits	27.0 h + 3.0 h	Q1
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Teacher(s)	Bruno Giacomo ;de Wasseige Gwenhaël ;Janquart Justin ;Lemaitre Vincent ;
Language :	English
Place of the course	Louvain-la-Neuve
Prerequisites	go to LPHYS2336
Main themes	go to LPHYS2336
Learning outcomes	At the end of this learning unit, the student is able to : go to LPHYS2336
Evaluation methods	Evaluation of personal projects reports. Oral exam, partly based on the projects reports.
Teaching methods	Lectures in class. Personal projects. Students can choose the subject among a list proposed by the teachers. Reading portfolio for personal study.
Content	This course consists of 2 partims, each worth 2.5 credits, thus totalling 5 credits: "Neutrino Physics" and "Astroparticle Physics" PARTIM "NeutrinoPhysics" (2.5 credits): physics of neutrino interaction with matters with emphasis on neutrino oscillations, neutrinos produced at accelerators and nuclear plants and cosmic neutrinos. PARTIM "Astroparticle Physics" (2.5 credits): Theory and detection methods used in astroparticle physics.
Bibliography	Des diapositives de cours et des documents supplémentaires sur les sujets traités sont disponibles sur le site MoodleUCL de l'unité d'enseignement. Course slides and additional documents on the subjects addressed are available on the MoodleUCL website of the teaching unit.
Faculty or entity in charge	PHYS

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [60] in Physics	PHYS2M1	5		
Master [120] in Physics	PHYS2M	5		