

Title	Period/Length	Supervisor	Team/Service	Pole	See more
Development of Artificial Intelligence algorithms for Higgs Boson physics Closed for spring/summer 2021. Possibilities for later dates.	6 weeks to 6 months	David Rousseau	ATLAS	PHE	
Fast luminosity measurements at the SuperKEKB electron-positron collider at KEK (Tsukuba, Japan)	Minimum 2 months	Philip Bambade	Belle II	PHE	
Theoretical study of thermonuclear DT fusion in a high-power laser field Closed	2021 / 2-3 months	Guillaume Hupin	PhyNet	Nuclear	
Towards IA for nuclear reactions Closed	2021 / 2-3 months	Guillaume Hupin	PhyNet	Nuclear	
Trajectory-based quantum tunneling using Bohmian mechanics Closed	2021, 2-3 months	Thomas Czuba Denis Lacroix	PhyNet	Nuclear	
Encoding arbitrary functions into a quantum register for quantum computing purposes Closed	2-3 months	Andres Ruiz Denis Lacroix	PhyNet	Nuclear	
Studies related to the measurement of the W mass with the ATLAS experiment	All periods of 2021	Louis Fayard Zhiging Zhang	ATLAS	PHE	

Modelling noisy quantum computers using atoms on a lattice Closed	2021, 2 mois	Yann Beaujeault-Taudière	PhyNet	Nuclear	
		Denis Lacroix			
Study of the (Brout-Englert-) Higgs boson in the diphoton channel and calibration of the ATLAS electromagnetic calorimeter	All periods of 2021	Louis Fayard	ATLAS	PHE	