

Master projects for 2019/2020

In Physics

Specialty	Headings of project	Supervising teacher
Materials Physics	Influence of the partial pressure of oxygen on the crystallinity and the texture of the CeO ₂ / SiTiO ₃ layers	GUIBADJ Abdenacer
	Theoretical study of the Physics properties of the ternary compound Ca ₃ XH ₂ (X = Sn, Pb)	HALIT Mohamed
	Ab-initio study of the Physics properties of the ternary compound AlAs ₂ (A = K, Rb)	HALIT Mohamed
	Theoretical investigation of the Physics properties of the ternary compound ABSe ₃ (A = Cs, Rb)	HALIT Mohamed
	Development and characterization of a ceramic with CaTiO ₃ composition	HALIT Mohamed
	Datamining study of certain Physics properties of some nitride borides and iron carbides	LEFKEIR Ibn-Khaldoun
	First principle Study of some Physics properties of compound ABQ ₂	BOUCHENAFI Mohamed
	Ab-initio study of some Physics properties of the ABY ₂ ternary compound	BOUROUROU Yahia
	Modeling and characterization of a magnetic material	HELIFA Bachir
	Formulation of Ginzburg-Landau equation in Su(2)	KHANCHOUH Salah
	Theoretical study of the MMnO ₃ family compound	LAGOUN Brahim
	Theoretical investigation of a potential oxide for ONL	LAGOUN Brahim
	Study of the stability of the La ₂ B compound	HAMDI Roukia

	theoretical study of a Mn-based perovskite	CHERIET Abderrahmane
	Numerical analysis of the thermal control of directional solidification furnaces for the production of mono like ingots	NOURI Abdallah
	Ab-initio study of the Physics properties of transition metal dichalcogenides	MEBARKI Hanifi
	DFT study of Zn	SOULEH Kouider

Spécialité	Headings of project	Supervising teacher
Applied Physics	Synthesis and characterization of chalcogenic ternary compound	BOUCHENAFA Mohamed
	Identification of the phases of a material made from Silica and high temperature sintered dolomite	KADIRI Cheikh
	DFT based study of some superconductors rare earth hydrides	KHANCHOUL Salah
	On the yet not fully elucidated ground state physical properties of the ternary chalcogenotmetllates CsGaQ2(Q=S,Se,Te)	MAABAD Said
	First principle DFT modeling of Elastic, electronic and optical properties of the chalcogenotallates AGaS2 (A=K,Rb,Cs)	MAABAD Said
	Electromagnetic numerical modeling for refining applications of molten metals	NOURI Abdallah
	Ab-initio study of the Physics properties of oxychalcogenide materials	MEBARKI Hanifi