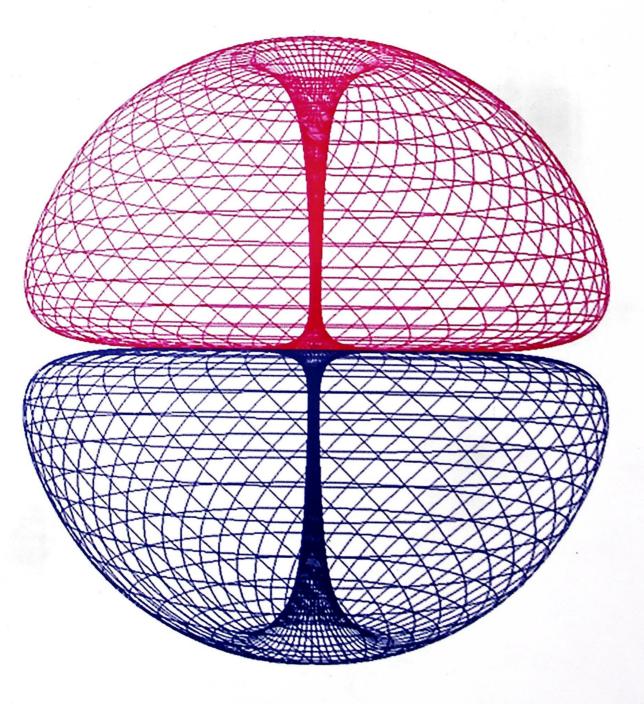


A St. Xavier's College Physics Department Annual Publication

NEW DIMENSION



Contents

Journals

-	A Study Of Geomagnetic Indices During Quiet And Disturbed Periods	1
-	Empirical Models For The Evaluation Of Global Solar Radiation In Kathmandu	8
	Nepal	
-	Hand written Digits Recognition Using Neural Net	17
-	Computation In Physics	23
-	Aerosols: The Impact-Full Atmospheric Particles	28
-	Study On The Synthesis Of ZnO Nano Particles Using Natural Plants Extracts	33
	And Using It For The Preparation Of Dye-Sensitized Solar Cells	
-	Study Of Ionosphere From Total Electrons Content And Its Importance In	37
	Nepal	
-	Zinc Oxide Nanostructure And Its Applications	40
-	A Brief Discussion About Electromagnetic Impulse (EMP)	44
-	Nuclear Technology: A Brief Overview	48
-	Higgs Boson: The God Particle	57
-	HDR Brachytherapy In The Context Of Nepal	60
-	Antimatter	64
-	Nanoscience And Nanotechnology: A Brief Review	67
-	Global Positioning System (GPS)	70
(General	
-	Negative Energy	76
-	The Butterfly Effect	80
-	A Short Engagement With Words	82
-	Most Amazing Recent Space Discoveries	85
-	A Space Story	89
-	Professional Skills At College	91
-	Staring At The Street Of Midnight Moonlight	93
-	The Real Picture Of Universe	98
-	Relativistic Basis Of Magnetism	100
	The Vacuum State In Quantum Field Theory	103
	SXPC – Nepal Outreach Program 2017: Sailung	105
-	A Small Talk With Prof. Dr. Binil Aryal	109

Gallery