

The Aesthetics of String Theory Design Structure as a Source for Innovating Creative Metal Pendants

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Abstract

Nature, with its laws and systems latent within the smallest cells and particles of matter, is full of wonderful structural and aesthetic syntheses, which are utilized by the artist to build many linear, colorful or tactile rhythms. Technological development and recent discoveries of science have affected many areas that led to the expansion of vision and the emergence of new and advanced concepts that have affected art and its philosophy, which in turn has led to changing the aesthetic standards of artistic work based on experimentation, discovery, analysis, interpretation and other tools of scientific research in order to link art technological development and recent discoveries. So, it is necessary for the arts in all its fields, and metalworking in particular, to find new approaches that combine modern discoveries with the field of metalworking.

String theory is one of the cosmic theories that explains all natural phenomena. It unifies laws related to phenomena on the cosmic level, whether related to bodies or objects. It is an emerging theory that combines the geometry of time and space based on the theory of relativity as well as quantum theory and dimensional multiplicity theory

The current research tackles enriching the educational field for students of the Art Education Department at the Faculty of Specific Education, Kafr El-Sheikh University, through the metalworking course, to create modern Art metal pendants that bear in their nature the idea of string theory, including various intellectual premises that enrich artistic taste and stimulate imagination and mental activity among students.

Keywords:

String Theory, Relativity Theory, Quantum theory, Metal Pendants

introduction:

It has a variety of forms, genres, and genres, in its diverse forms in his artwork.

Previous studies show the apparent phenomenon of scientific theories that explain many natural phenomena and physical and physical theories (string theory (series) theory) the subject of this research, which "combines the concepts of my theory as well as quantum in addition to the forces of gravity, as it interprets time and space with a vision and states that The world has more dimensions than the size of the eye, which are the dimensions that are strongly braided within the folded cosmic fabric" (Alwar, Zahraa, 2011, p. 3)

And then studying that idea in the field of art, especially in the field of various metal works, and starting metal pendants based on drawing

“Exchanging the art of pendants is one of the latest richest in the field of fine art, one of the oldest and most famous applied arts that have high artistic and aesthetic values” (Ibrahim, Ghalia, 2018, p. 1), and metal pendants are forms of metalwork that need more

And because experimentation is in the field of artistic work in general, and the research has adopted its application on the method. chlo describe y alt h ly ly walt c railyby, and wha ilb search ytnaitl chl mab almudni alm problem jni bala jni jni haitra jni lenrih

Research problem

Accordingly, we can summarize the research problem in the following question:

How can innovative plastic solutions be found using metal wires with their various techniques, as well as combining wire material with aluminum foil to create metal suspensions, by taking advantage of the hypothetical structure of string theory?

Research hypotheses :

Research assumes that

- It is possible to create pendants using metal wires with innovative plastic and aesthetic solutions, taking advantage of string theory.
- It is possible to combine the material of wire with aluminum foil to achieve the plastic and aesthetic aspects of creating a contemporary vision of the metal hanging based on benefiting from the theory of strings.

research importance:-

Opening new horizons for experimentation by shedding light on the aesthetics of the hypothetical structure of string theory to support and enrich the field of metalwork in the college in order to achieve development in the educational process.

Enriching the educational and plastic side through the experimental practices of art education students at the Faculty of Specific Education, Kafrelsheikh University, in order to reach technical solutions for forming with metal wires in innovative ways, as well as pairing with plastic methods for aluminum foil.

- Linking art, especially the field of metalwork, with modern and contemporary scientific theories that focused on the study of nature.

research aims

- Benefiting from the hypothetical structure of string theory to develop innovative metallic suspensions.
 - Achieving the plastic and aesthetic aspects of the metal artifact by benefiting from the processes resulting from the vibration of the strings in the curly dimensions.
- Finding new plastic solutions using metal wire forming to apply it in the educational process.
- Combining wire forming methods with aluminum foil forming methods to create metallic suspensions by taking advantage of the hypothetical structure of string theory.

search limits

Spatial limits: The study was applied to students of the second year at the Faculty of Specific Education, Kafrelsheikh University.

Time limits: The experiment was applied in the metalwork course (1) for the academic year 2020-2021.

Research Results :

- 1- Enriching the art of metal pendants and inculcating its importance to the university student.
- 2- Achieving an unconventional vision for the implemented metal spoon, which allows opening room for the development of innovative capacity.
- 3- Appropriate employment of mineral ores within the suspension in order to achieve compatibility and interdependence between them and to ensure the emphasis on the aesthetics of formation.
- 4 - Achieving the technical, formative and aesthetic aspects through different formatting methods.
- 5- The hypothetical structure of string theory is a new entry that enriches the metal hanging with many design formulations.
- 6- Through this research, it was possible to find new design and technical starting points by studying string theory and benefiting from it in the development of innovative metal suspensions.

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