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clusters are aggregates of atoms molecules or ions that adhere together under forces like those that bind the atoms ions or molecules of bulk matter because of the manner in which they are prepared clusters remain as tiny particles at least during the course of an experiment there are clusters held together by van der waals forces by a promising complementary approach to conventional surface science involves the use of clusters as model systems to unravel the basic mechanisms of selected classes of reactions effected by heterogeneous catalysts 164 190 and elucidate the physical and chemical properties of condensed phase catalysts notably through advances in recent natural science can be divided into two main branches life science and physical science life science is alternatively known as biology and physical science is subdivided into branches physics chemistry astronomy and earth science in physics the term clusters denotes small polyatomic particles as a rule of thumb any particle made of between 3×10^0 and 3×10^7 atoms is considered a cluster the term can also refer to the organization of protons and neutrons within an atomic nucleus e g the alpha particle also known as α cluster 1 consisting of two protons home career clusters science technology engineering and mathematics career cluster careers in the science technology engineering and mathematics stem cluster involve solving a variety of problems through research and design view related careers science technology engineering and mathematics career videos harvard university undergraduate science education services undergraduates in both the life sciences concentration clusters and in undergraduate education in the physical sciences harvard science education brings together fas science education information and resources for undergraduates and faculty alike undergraduate education in the physical sciences has extraordinary resources for study and research with ample opportunity for collaboration between disciplines students typically begin their study either with interdisciplinary courses in the physical sciences sequence or with foundational courses in one of the relevant departments tant the properties of these clusters can help us understand problems that exist in many areas of science in addition to being a bridge between these disciplines clusters also serve as a bridge within disciplines by combining ideas among atomic molecular and condensed mat ter and nuclear physics as well as among specific examples of clusters in chemistry and physics are used to illustrate various principles or models of clustering processes of atoms and molecules as well as to demonstrate the exquisite beauty and pattern of clusters and the clustering phenomena so ubiquitous in nature what is the structure of molecules like how do molecules react and why physical chemistry tells us the answers to these fundamental questions published 01 march 1971 statics and stability of small cluster nuclei m r hoare p pal nature physical science 230 5 8 1971 cite this article 399 accesses 45 citations the four main branches of physical science are astronomy physics chemistry and the earth sciences which include meteorology and geology history of physics history of the physical science that studies matter and its motion through space time and related concepts such as energy and force history of acoustics history of the study of physical sciences and math students with interests in the physical sciences and mathematics may pursue ucsc majors in applied physics chemistry general or a concentration in biochemistry biochemistry and molecular biology earth sciences general or with concentrations in environmental geology geology ocean sciences and planetary the cluster quartet four identical spacecraft flying in a pyramid configuration study the physical processes occurring within and around the magnetosphere to better understand this region is to better understand how life was and is possible on our planet chemical and physical biology cpb the chemical and physical biology cpb concentration emphasizes a quantitative approach to the life sciences that involves using tools approaches and methodologies from mathematics chemistry and physics to study biology introduction the collective migration of cells is widespread in multicellular lifeforms and is implicated in a variety of vital processes 1 2 these include morphogenesis in developing embryos 3 4 the spread of cancer 5 6 7 regeneration and wound healing 5 8 as well as vasculogenesis 9 science technology engineering mathematics this career cluster is focused on planning managing and providing scientific research and professional and technical services e g physical science social science engineering including laboratory and testing services and research and development services article molecular metal clusters cluster chemistry may provide valuable insights to chemisorption and catalysis on surfaces e l muettetries authors info affiliations science 20 may 1977 vol 196 issue 4292 pp 839 848 doi 10 1126 science 196 4292 839 formats available you can view the full content in the following formats this subgroup has the main research target in physical structures interaction processes and dynamics of magnetospheres around compact celestial objects such as the earth planets comets the sun and primordial stellar systems

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clusters a bridge across the disciplines of physics and

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a promising complementary approach to conventional surface science involves the use of clusters as model systems to unravel the basic mechanisms of selected classes of reactions effected by heterogeneous catalysts 164 190 and elucidate the physical and chemical properties of condensed phase catalysts notably through advances in recent

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natural science can be divided into two main branches life science and physical science life science is alternatively known as biology and physical science is subdivided into branches physics chemistry astronomy and earth science

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in physics the term clusters denotes small polyatomic particles as a rule of thumb any particle made of between 3×10^0 and 3×10^7 atoms is considered a cluster the term can also refer to the organization of protons and neutrons within an atomic nucleus e g the alpha particle also known as α cluster 1 consisting of two protons

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undergraduate education in the physical sciences has extraordinary resources for study and research with ample opportunity for collaboration between disciplines students typically begin their study either with interdisciplinary courses in the physical sciences sequence or with foundational courses in one of the relevant departments

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tant the properties of these clusters can help us understand problems that exist in many areas of science in addition to being a bridge between these disciplines clusters also serve as a bridge within disciplines by combining ideas among atomic molecular and condensed mat ter and nuclear physics as well as among

a perspective on the science of clusters journal of cluster

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specific examples of clusters in chemistry and physics are used to illustrate various principles or models of clustering processes of atoms and molecules as well as to demonstrate the exquisite beauty and pattern of clusters and the clustering phenomena so ubiquitous in nature

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what is the structure of molecules like how do molecules react and why physical chemistry tells us the answers to these fundamental questions

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the four main branches of physical science are astronomy physics chemistry and the earth sciences which include meteorology and geology history of physics history

of the physical science that studies matter and its motion through space time and related concepts such as energy and force history of acoustics history of the study of

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physical sciences and math students with interests in the physical sciences and mathematics may pursue ucsc majors in applied physics chemistry general or a concentration in biochemistry biochemistry and molecular biology earth sciences general or with concentrations in environmental geology geology ocean sciences and planetary

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the cluster quartet four identical spacecraft flying in a pyramid configuration study the physical processes occurring within and around the magnetosphere to better understand this region is to better understand how life was and is possible on our planet

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chemical and physical biology cpb the chemical and physical biology cpb concentration emphasizes a quantitative approach to the life sciences that involves using tools approaches and methodologies from mathematics chemistry and physics to study biology

cell cluster migration connecting experiments with physical

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introduction the collective migration of cells is widespread in multicellular lifeforms and is implicated in a variety of vital processes 1 2 these include morphogenesis in developing embryos 3 4 the spread of cancer 5 6 7 regeneration and wound healing 5 8 as well as vasculogenesis 9

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science technology engineering mathematics this career cluster is focused on planning managing and providing scientific research and professional and technical services e g physical science social science engineering including laboratory and testing services and research and development services

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this subgroup has the main research target in physical structures interaction processes and dynamics of magnetospheres around compact celestial objects such as the earth planets comets the sun and primordial stellar systems

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