

Relation of physics and economics affected Covid-19 in Islam on Hahslm

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Abstract. The purpose of this research is to analyze the relation of physics to economics that was affected by Covid-19 in the Islamic perspective based on Hahslm approach. Explanations are ranging from theory, methodology, and analysis with exposure of reflexivity among physics, economics, pandemic in Islam, and Hahslm approach. The data sources are from journals, books, electronic media, and institution reports. The methodology is descriptive and qualitative with a method od Hahslm. The results of this study explain that there is a relation between physics and Islam based on Hahslm approach that Covid-19 affects economic. The connectivity of physics can be drawn as time and space where Covid-19 as a strong nuclear element can influence the gravity element in economics. Gravity has a profound effect on the universe, and so does the reflexivity of Hahslm that also has a profound impact in the universe. Physics has time and space to draw the economic system. Physics provides a new approach to economic change caused by Covid-19 with elements of time and four forces. The impact of the covid-19 has stunted the economy and other sectors that drastically decreased.

1. Introduction

From the many sciences, the writing of this paper examines the physics and economics of Islam. In theory, H. Physics is a science that discusses nature or studies about inanimate natural phenomena or matter in the sphere of space and time. As we know that physics comes from the thinking of people with high IQ who spend time researching something, for examples, such as J. Thomas, Niels Bohr, Einstein, and many others. However, we don't know that Allah SWT has written it in the Koran. The great scientist Albert Einstein explained the fact of the theory of relativity that time is determined by mass and velocity. In human history, no one has been able to express this fact before. However, the Qur'an contains information about time which is relative. Several verses explain, one of which is contained in the letter Al-Hajj verse 47, which reads: "And they ask you to hasten the punishment, even though Allah will never break His promise a day with your Lord is like a thousand. according to calculations".

Islam has an economic system that is fundamentally different from existing systems [1]. It has roots in the Shari'a which shape the world view as well as goals and strategies (maqashid asy-shari'ah) which are different from the secondary systems which rule the world today. The goals in Islam are fundamentally immaterial. Based on Islamic concepts itself about human happiness and good life which emphasizes the aspect of brotherhood. This is due to the belief that humanity has the same position as the caliph of Allah SWT.

Since the acquisition and use of resources fundamentally require efficiency, including work and production, the economy shows the principles of business and methods to achieve goals. According to

Albert L. Meyers, economics is the science that questions the needs and fulfilment of human needs [2]. Another economist, JL Meij, argued that economics is the science of human efforts towards prosperity. This opinion is very realistic because it is viewed from an economic aspect where humans as economic beings essentially lead to the attainment of prosperity.

All countries are projecting a decline in their economic growth due to the coronavirus pandemic. In fact, in the worst-case scenario, Indonesia's economic growth could be minus 0.4%. Finance Minister Sri Mulyani said Indonesia was hit hard enough by the spread of the coronavirus. Not only human health, but this virus also disrupts economic health around the world. The Financial Sector Stability Committee, predicts Indonesia's economic growth in the worst scenario. The current condition will have an impact on the decline in household consumption, which is estimated at 3.2% to 1.2%. More than that, the investment will also decline sharply. Previously, the government was quite optimistic that investment would grow by 6%. However, with the existence of Covid-19, it is predicted that investment will drop to the level of one percent, or at worst it can reach a drink of 4% [3]. Exports are also predicted to have a deeper correction, considering that the growth has been negative for the past year. Likewise, imports will continue to have negative growth.

1.1. Problem formulation

As explained above, there are several that will be the research discussion of the relationship between physics, Islam in theory H, economics, and Covid-19. So based on the problems that have been described there are two questions that can be formulated:

1. How is the relationship between physics and Islam in Hahslm's theory?
2. What is the impact on the economy as a result of Covid-19?

1.2. Purpose of writing

Based on the explanation of the above problems, the purpose of writing this paper is to analyze the relationship between physics and Islam in theory H and to analyze the impact of covid-19 on the economy of this paper.

1.3. Benefits of writing

The benefits are so that we all know that between physics, economics, and Islam in theory H are related to one another. In the Koran, it is explained that there is no difference between Islam and science. And so we know that all countries in the world have been affected by the coronavirus. From the coronavirus outbreak, it reminds us of the importance of health and has a very influential impact on worship, the economy, and the cessation of community activities. So, from this research, we can find out the positive and negative effects of this coronavirus pandemic.

2. Literature review

2.1. History and Definition of Physics

Physics began in about 2400 BC when the Harappan culture used an object to estimate and calculate the angles of stars in space. Since then physics has continued to develop to its present level. This development not only brings changes in the realm of matter, mathematics, and philosophy but also through technology brings changes to society. The scientific revolution that took place in 1600 can be said to be the boundary between ancient thinking and the birth of classical physics.

The contribution of the development of Islam to the development of physics began when the culture was dominated by the Roman Empire, medical science and physics developed very rapidly, led by scientists and philosophers from Greece. Muslim scientists succeeded in developing astronomy and mathematics, which eventually found the field of new science, namely chemistry. After the Arabs conquered Persia, science developed rapidly in Persia and scientists continued to emerge who finally actively moved the existing knowledge from Greek culture to the Middle East which was then retreating from Europe which was entering the dark ages. Then came scientists who continued to develop science towards the development of the modern era.

2.2. *Islam in Theory H*

By the rules of the Arabic language, the word Islam comes from the root word # consonant letters: sin lam mim, then the consonant prefix is alif so that the root word alif sin lam mim is formed. The basic form consisting of 4 letters (3 the letter +1 letter) is the basic word for the main word to form the word, Islam. Then this basic word-formation will be written in a simple equation, namely: Islam is Alif Sin Lam Mim.

Function 1: Islam Ha = Alif ha (Sin, Lam Meem)

Where there is Islamic meaning in it:

Ha = H, Alif = I, ha = h, Sin = S, Lam = L, Mim = M

Formula: H = Ah (S, L, M)

These variables will be used as benchmarks for developing other formulas. There is a verse from the Qur'an surah Al-hijr (15): 87 which means:

"And I give you 7 that is repeated and the Great Quran"

From the theory h above, the formula for the existence of time and space dimensions is obtained. Allah SWT empirically mentions that human civilization interprets it 14 centuries after as a symbol of the dimension of time by arguing that the word matsani or being repeated. While the Quran is symbolized into a spatial dimension which is further divided into four parts, this is interpreted from the word ahiim, which means deep which means space.

2.3. *Economic*

Theory Economics is the study of human behaviour in choosing and creating prosperity. The essence of the economic problem is an imbalance between unlimited human needs and a limited number of means of satisfying needs. These problems then lead to scarcity. In simple terms, economic growth is the state of a country's economy during a certain period which is better or increasing than the previous period based on several indicators. These indicators are an increase in national income and per-capita income, a more significant number of workers than unemployed, and a reduction in the level of poverty. If the conditions of these indicators decline compared to the previous period, the country will not experience economic growth but economic decline. Economic growth can be used as a benchmark that sees the progress of a nation and how the results of development carried out during that period [4].

2.4. *Theory of Covid-19*

A coronavirus is a group of viruses from the Orthocoronavirinae subfamily in the Coronaviridae family and the order Nidovirales. This group of viruses can cause disease in birds and mammals, including humans. In humans, the coronavirus generally causes mild respiratory infections, such as the common cold, although some forms of the disease include; SARS, MERS, and COVID-19 are even more deadly.

In current conditions, the coronavirus is not an epidemic that can be ignored. When viewed from the symptoms, ordinary people would think that it was only limited to regular influenza, but for medical analysis, this virus is quite dangerous and deadly. Currently, in 2020, the development of this virus transmission is quite significant because its spread is worldwide, and all countries are feeling the impact, including Indonesia [5].

3. Method

3.1. *The Relationship of Physics to Hahslm*

The universe, with its vast dimensions beyond human understanding, functions in a sensitive balance without fail. The universe also tasks in a planned order and from the very beginning of its formation. Scientists have done countless studies on this subject and come up with various theories and opinions.

Formula: H = AhSLM or 4 = 72319 from words of Huda = Alif Fanif Sin Lillah Masjid. It has a meaning of guidance of the straight path of man to God with worship. Measuring designs and the order of the universe by using their intellect and consciousness, Allah mentions this real truth in the

verse of the Quran: "Verily in the creation of the heavens and the earth, and the alternation of night and day there are signs for those who are wise" (Surah Ali 'Imran, 3: 190). That is why the words nature and science have the same root letter: 'ain-lam mim [6].

3.2. *Cambridge Research on Coronavirus*

The study found that most of the strains sampled in the United States and Australia were genetically closer to viruses in bats than strains common to patients from across East Asia. However, the journal examined only the first 160 strains collected after the end of December. The limited sample size limits the ability of researchers to determine when and where the first outbreaks started. In the new, yet to be reviewed study, Forster and colleagues from several institutions including the Institute of Forensic Genetics in Munster, Germany, expanded the database to include 1,001 high-quality full genome sequences released by scientists around the world. More evidence can be identified by analyzing more bats, the possibility of other potential hosts, and tissue samples preserved in Chinese hospitals that were stored between September and December 2019.

4. Results and Analysis

4.1. *Physics against Islam in Hahslm*

Physics is a science that studies inanimate natural phenomena or matter in space and time. One of the verses of the Al-Quran related to physics is the creation of the heavens and the earth in six periods. The Word of Allah SWT in QS Qaf verse 38, "And indeed We have created the heavens and the earth and whatever is between them in six times, and We are not at all overpowered by fatigue." Based on research or historical theory, the origin of life can be categorized into six periods. In the first period, in the beginning, the heavens and the earth were a unified unity, explained in QS Al-Anbiya verse 30 "And whether those who disbelieve did not know that the heavens and the earth were both a solid one, then We separate them between the two. And from the water, We made everything that is alive. So why do they not also believe?". It is clear that there is no contradiction between religion and science, it is integral; it cannot be separated from one another. This relationship shows how positive Islam views science (and matters related to scientific activity). In this connection, Islamic education can be lived and understood completely and "kaffah" (complete and comprehensive there is no dichotomy between religious education and general education). As a consequence of the absence of separation between science and religion, it can also be emphasized that there is no separation between what is called the science of religion and general science. Munir Mursi stated that "all knowledge is Islamic as long as it is within the boundaries that Allah has outlined for us" [7].

Then according to the Big Bang Theory (explosion expansion theory), there was a huge explosion separating solid unity. Because the surrounding conditions are cold, it causes condensation (clumping). In the second period, gravity began to play a role and began to appear galaxies consisting of stars. Today, the relativity of time is a proven scientific fact. This was revealed through Einstein's theory of relativity of time in the early years of the 20th century.

Previously, humans did not know that time is a relative concept, and that time can change depending on the circumstances. The great scientist, Albert Einstein, publicly proved this fact with the theory of relativity. He explained that the mass and velocity determine the time.

The nature of the seas that meet, but do not mix, has been discovered by oceanographers recently. Due to a physical force known as "surface tension", water from adjacent seas does not coalesce. Due to the difference in density, surface tension prevents the oceans from mixing, as if a thin wall separates them. (Davis, Richard A., Jr. 1972, Principles of Oceanography, Don Mills, Ontario, Addison-Wesley Publishing, s. 92-93.). If science and religion are genuinely independent, the possibility of conflict can be avoided, but it will eliminate the possibility of constructive dialogue and enrichment between the two [8].

4.2. *Impact of Covid-19 on the Economy*

The Covid 19 outbreak has the potential to change the world economic order marked by changes map of world trade, besides causing stagnation in various business fields. As explained in QS Al Muzzamil verse 20, which means "And some of the people who walk (yadribuna) on the face of the earth are looking for a part of the Gift of Allah".

The increase in countries affected by the Covid 19 virus around the world such as America, Spain, and Italy has made the world economic situation worse. Several institutions even predict the weakening of the world economy, including the International Monetary Fund (IMF) which projects the global economy to grow minus 3% [9]. The Minister of Finance explained that State Income in March 2020 would grow positively. Even though the Government is then wary of the impact of the pandemic in the coming months, considering that this outbreak has only begun to spread in Indonesia in the second week of March 2020. Several economic policies were launched, even President Joko Widodo asked all parties to carry out social distancing including Work From Home (WFH) and several Regional Heads decided to cancel teaching and learning activities.

From a religious perspective, Covid 19 can occur as a test of human greed, endless corruption, likes and dislikes that kill one's career, immorality, lack of concern for the fate of others, and include impatience in accepting trials and lack of alms and paying zakat. Many lessons can be learned [5].

4.3. GDP With Moderate Lockdown (ML)

Lockdown is a term used to describe an effort to control the spread of infection. Communities in areas that are under lockdown can no longer leave their homes and gather, while all transportation and office, school, and worship activities will be disabled. The definition of lockdown is still unclear and has not been agreed on globally.

This very drastic decrease occurred as a result of the government imposing a lockdown in all regions. As it is known, with the implementation of a lockdown, all activities are limited, the economy during the coronavirus pandemic is 5,00018. This figure has exceeded the legal limit set at 3% of GDP. So, the government plans to issue another Government Regulation In Lieu of Law to relax the budget deficit. With a deficit target of 5% for three years. And in 2023, the Government will again use the maximum fiscal limit set by law.

5. Conclusion

From the analysis of the above explanation, it can be concluded that It is clear that between religion and science, there is no contradiction, it is integral, it cannot be separated from one another. This relationship shows how positively Islam views science. All knowledge is Islamic as long as it is within the boundaries that Allah has outlined. When humans do not know that time is a relative concept and time can change depending on the circumstances. Explanation about time is determined by mass and velocity. In human history, no one has been able to express this fact before. But there are exceptions, the Qur'an already contains information about time which is relative.

The relation in physics can be described as time and space where the time of pandemic as a strong nuclear element impact the space of economics as a gravity element. Space has a profound effect on the universe, and so does the reflexivity of Hahslm that also has a profound impact in the universe. Physics has time and space to draw the economic system. Physics provides a new approach to economic change caused by a pandemic with elements of time and space. The influence of health has dropped the economy in multidimensional sectors.

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