

## Chapter I

### Tele - Transference Theory in Al-Qur'an

#### A. Background

Al-Qur'an is one kind of Allah SWT miracle which is given to Muhammad PBUH. This is the last guidance book and complete last book of (*Taurat, Zabur and Injil*) for human. Allah SWT also gave miracle<sup>1</sup> to His prophets. Every single prophet has their miraculous<sup>2</sup>. And miracle was divided into two types: unthinkable miracle and thinkable miracle. The example of Unthinkable miracle is like Moses bright hand and his carne which could be snack and cleft the sea, because he lived in the age of magic period. And thinkable miracle example is Al-Qur'an which is sent to Prophet Muhammad PBUH<sup>3</sup>.

One of al-Qur'an miracle is his characteristic *shalihun likulli zamân wa makân*. This is used by *Mufasssir Ilmy* (scientific interpreter approach) as reason exploring al-Qur'an. They said that there are many *kauniyah* verses, and need to be explored. Thanthâwi Jauhari said that

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<sup>1</sup> According to Moslem scholars the following five conditions must be met before an event can accepted as a miraculous from Allah:

- a. That no one else apart from Allah the master of the world is able to do it.
- b. That it break the usual norms and differs from the laws of nature (not the laws of Allah, but the way nature normally is).
- c. That it serves as proof for the truth and claim of the messenger's.
- d. That it happens in accordance with the messenger's claim.
- e. That the event happens through the messenger and no one else.

Ahmad von Denffer '*Ulum al-Qur'an: an Introduction to the Sciences of the Qur'an* UK: the Islamic Foundation, 1983, page. 149-150.

<sup>2</sup> *Ibid*, page. 149. It was supported by Hadith narrated by Abu Huraira "The Prophet said- every prophet was given miraculouss because of which people believed but what I have given is divine inspiration which Allah has revealed to me so I hope that my followers will outnumber the followers of the other prophets on the Day of Resurrection". In Arabic term, miraculous is namely I'jaz which is derived from the root 'ajaza which has various meanings, ranging from "to be incapable, to make powerless, etc"..

<sup>3</sup> Unpublished paper by Siti Hani'ah and Niswatul Ashifah at the subject Ulum al-Qur'an lecture Mr. Dr. Zuhad Mashduqi, 2007. Mean while M. Quraish Shihab in his book "Mukjizat al-Qur'an: Ditinjau dari Aspek Kebahasaan, Isyarat Ilmiah dan Pemberitaan Gaib" divided miraculous into two type first, material physical miraculous such past prophet has, Noah has Big Ship, Moses has magic wand, and because they guide their people just. Second, immaterial and logic miraculous, it is al-Qur'an.

there are 750 *kauniyah* verses<sup>4</sup>. But, most scholars did not realize this condition. They interpreted it as flow.

Today, science growth rapidly, its innovation and experiment covered world. It result efficient and effective helped people. People could go to somewhere and some place in view hours, or connect each other by phone and they did not need to meet face to face. Even they miss each other, 3G and web came also very helpful. Everything is becoming short today, because scientific result (technology).

Those technologies known as Tele - Transference, when distance and time being short. Tele mean “distance” and transference mean “move”. This theory discusses the way of transferring something to somewhere. Moreover people will be very helpful. Sciences now governs the world has revolutionized everything and worked wonders. It has carried sound waves for thousands of miles and even round the globe in less than twinkling. The science result that round the globe in less than twinkling are the light theory, wave theory and the electromagnetic wave theory.

The Tele - Transference theory built from quantum physics theory. It is study about matter and radiation at atomic level. Today phenomena are about particle and wave debate. Particle was in some place at some time. Wave, for example sound wave, it spread around space. At atomic level, this difference is not valid. Electron known as particle could be like wave. As well as light known as wave, its half act just could be explained when it became particle, well known as photon. This wave-particle characteristic or researcher say “duality” only could be explained through quantum physics.

Begin with Max Planck constant theory where he divided light become to be small particle named quanta<sup>5</sup>. Then he determined unit energy on symbol  $E$ , to each quantum which is related to its frequency,  $f$ .

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<sup>4</sup> Thanthâwi Jauhari, *al-Jawâhir fi Tafsi'r al-Qur'an al-Karîm*, Beirut: Intisyarat Afatat. Tt, page. 121.

<sup>5</sup> Alan Isaac BSc, PhD. DIC, *Kamus Lengkap Fisika*, Jakarta: Erlangga, 1994, page. 354.

the pattern is  $E = hf$  where  $h$  is new mathematic constant in nature. Max Planck theory explained that all things energy in the world distributed on each atom. And every atom could radiate electromagnetic radiation in quanta shape<sup>6</sup>.

Max Planck theory disturbs Einstein. Then, he tried to pick Planck theory and applied it on his that light was spread as small particle. This is the basic theory of photoelectric effect, where electricity poured on electric combination when radiate light on metal plate and metal electron on it going to move and became electricity. This particle named as photon, then<sup>7</sup>. The photon explained Einstein relativity theory<sup>8</sup>.

Before light theory was discovered by Einstein, scientist only knew that light is kind of wave. But, after Einstein, it is also mentioned as particle. In the beginning of 1920, France scientist, Louis de Broglie appeared with his theory of electron which is considered as particle also could be wave and particle. Mean, he said that all things considered as both wave and particle, even human and vas, although both wave characteristic is not visible because both had heavy mass<sup>9</sup>.

The collaboration of those theories De Broglie with his electron theory, Einstein photon, Planck constant created Quantum, it is universal. This explained that on quantum reality wave and particle both were related and same<sup>10</sup>.

Tele - Transference technology governed the world, people no wonder with those technologies. The theory or its experiment result made scientist think as god. They think that no body could change his decision<sup>11</sup>. They forgot that there is big God. He is the one who created and arranged

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<sup>6</sup> John Gribbin *Fisika Kuantum-panduan bagi pemula ke dunia subatomic*, Jakarta: Penerbit Erlangga, 2002, page. 15-16.

<sup>7</sup> *Ibid*, John Gribbin, page. 16-17.

<sup>8</sup> Wisnu Arya Wardana, *Melacak Teori Einstein dalam al-Qur'an*, Yogyakarta: Pusataka Pelajar, 2006, page. 120.

<sup>9</sup> *Op. cit*, John Gribbin, page. 26.

<sup>10</sup> *Ibid*, John Gribbin, page. 26.

<sup>11</sup> Dialogue in film c.i.n.[T].a. an architect will say that his design of such building is the perfect, they think that they are god who design world content.

all worlds inside. He also descended His greatest book to the last Prophet Muhammad PBUH. Al-Qur'an explained and covered all happened in the world. This is scientific interpretation duty explored all verses which is used to reach technology or even the opposite technology approached al-Qur'an.

It was mentioned above that Tele - Transference technology governed the world. Al-Qur'an is the last and complete book. Did al-Qur'an covered Tele - Transference? The answer is yes. Al-Qur'an explained Tele - Transference technology indeed. Ahmad M. Sulaman through his book<sup>12</sup> *The Scientific Trends in the Quran* said that Tele - Transference theory and technology. It was mentioned in tree incident in al-Qur'an. *First*, it is Sulaiman miracle in moving Queen Saba' throne. *Second*, Isa ascension to the sky. *Third*, Muhammad PBUH Isra' and Mi'raj.

Those three stories are mentioned in QS. An-Naml: 39-40, QS. Ali-'Imran: 55, QS. An-Nisa': 157-158 and QS. Al-Isra': 1;

قَالَ عِفْرِيتٌ مِّنَ الْجِنِّ أَنَا آتِيكَ بِهِ قَبْلَ أَنْ تَقُومَ مِنْ مَقَامِكَ وَإِنِّي عَلَيْهِ لَقَوِيٌّ أَمِينٌ (39) قَالَ  
الَّذِي عِنْدَهُ عِلْمٌ مِّنَ الْكِتَابِ أَنَا آتِيكَ بِهِ قَبْلَ أَنْ يَرْتَدَّ إِلَيْكَ طَرْفُكَ فَلَمَّا رآهُ مُسْتَقِرًّا عِنْدَهُ قَالَ  
هَذَا مِنْ فَضْلِ رَبِّي لِيَبْلُوَنِي أَأَشْكُرُ أَمْ أَكْفُرُ وَمَنْ شَكَرَ فَإِنَّمَا يَشْكُرُ لِنَفْسِهِ وَمَنْ كَفَرَ فَإِنَّ رَبِّي غَنِيٌّ  
كَرِيمٌ (40)

“One audacious among the jinn said: I will bring it to you before you rise up from your place; and most surely I am strong (and) trusty for it. (39) One who had the knowledge of the Book said: I will bring it to you in the twinkling of an eye. Then when he saw it settled beside him, he said: This is of the grace of my Lord that He may try me whether I am grateful or ungrateful; and whoever is grateful, he is grateful only for his own soul, and whoever is ungrateful, then surely my Lord is Self-sufficient, Honored (40)”.

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<sup>12</sup> Ahmad M. Sulaman *The Scientific Trends in the Quran*, London: AKM Associates (UK) ltd, 1985, page. 88.

Isa ascension mentioned in QS. Ali Imran: 55 And An-Nisa': 157-158.

إِذْ قَالَ اللَّهُ يَا عِيسَى ابْنَ مَرْيَمَ خُذْ هَذَا الصَّلَافَ الَّذِي كَفَرُوا بِمَا كُنتُمْ فِيهِ تَخْتَلِفُونَ (55)

“Behold! Allah said: "O Isa! I will take Thee and raise Thee to Myself and Clear Thee (of the falsehoods) of those who blaspheme; I will make those who follow Thee superior to those who reject Faith, to the Day of Ascension: then shall ye all return unto me, and I will judge between you of the matters wherein ye dispute, (55).”

وَقَوْلِهِمْ إِنَّا قَتَلْنَا الْمَسِيحَ عِيسَى ابْنَ مَرْيَمَ رَسُولَ اللَّهِ وَمَا قَتَلُوهُ وَمَا صَلَبُوهُ وَلَكِنْ شُبِّهَ لَهُمْ وَإِنَّ الَّذِينَ اخْتَلَفُوا فِيهِ لَفِي شَكٍّ مِنْهُ مَا لَهُمْ بِهِ مِنْ عِلْمٍ إِلَّا اتِّبَاعَ الظَّنِّ وَمَا قَتَلُوهُ يَقِينًا (157) بَلْ رَفَعَهُ اللَّهُ إِلَيْهِ وَكَانَ اللَّهُ عَزِيزًا حَكِيمًا (158)

“That They said (in boast), "We killed Christ Isa the son of Mary, the Messenger of Allah.;- but They killed Him not, nor crucified him, but so it was made to appear to them, and those who differ therein are full of doubts, with no (certain) knowledge, but only conjecture to follow, for of a surety They killed Him not:- (157) Nay, Allah raised Him up unto Himself; and Allah is Exalted In power, Wise;- (158)”

Muhammad PBUH Isra' Mi'raj mentioned in QS. Al-Isra': 1.

سُبْحَانَ الَّذِي أَسْرَى بِعَبْدِهِ لَيْلًا مِنَ الْمَسْجِدِ الْحَرَامِ إِلَى الْمَسْجِدِ الْأَقْصَى الَّذِي بَارَكْنَا حَوْلَهُ لِنُرِيَهُ مِنْ آيَاتِنَا إِنَّهُ هُوَ السَّمِيعُ الْبَصِيرُ (1)

“Glory to ((Allah)) who did take His servant for a journey by night from the sacred Mosque to the farthest Mosque, whose precincts we did bless,- In order that we might Show Him some of Our Signs: for He is the one who hearths and seeth (All things), (1)”

The miracle stories in Al-Qur'an are not an art creation which is separated on theme and its act, also on the role of the story, but it is one of Al-Qur'an way to show up for religious purpose<sup>13</sup>. As mentioned by

<sup>13</sup> The aim of story in the al-Qur'an is like bellow :

- Establish Allah revelation and prophetic.
- Explaining that all religion is come from Allah since Noah up to Muhammad religion.
- Explaining that all religion come from same basic thing.
- Explaining how prophet does da'wah.
- Explaining about the right always is winner (prophetic-Allah will help His prophets by destroying liar group who rejected prophet da'wah).

Sayyid Quthb<sup>14</sup>, Al-Qur'an is book of religious proselytizing and the story inside is one way of religious proselytizing as proven. The story that was mentioned in the Al-Qur'an also told about prophet miraculous.

Sulaiman, Isa and Muhammad PBUH incidents was past Tele - Transference miraculous technology. But science now has revolutionized everything and worked wonders. It has carried sound waves for thousands of miles and even round the globe in less than twinkling. It has caused our picture to be broken into very tiny dots, to be carried through the ether and gathered again at great distances crossing oceans and continents and reforming the pictures which are seen by us. It has unraveled the secrets of nature and hardness the atom. It has shown us how matter can be changed into energy and it is trying to prove that energy can be converted into matter.<sup>15</sup>.

Man assumes that in the future it will be within the realm of probability that objects and bodies will be conveyed to great distance in less than a twinkling by mean of their being split up into electrons and protons. These will be conveyed through the ether reformed in the same way as radio electrons are sent and received. Is it possible? Al-Qur'an have gave as answers to this question in recounting three great incidents above which man has remained till now at a loss how to interpret. In the light of science man has begun to believe the probability of their occurrence; and science in researcher opinion will prove the truth of the principle on which those three great incidents above were based. Science is on its way to prove that three were no such things as miracle, as everything is carried out according to established laws most of which man has ignored

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- f. Explaining happiness story and menacing story.
  - g. Explaining some prophets' grace from Allah SWT for example the story of Prophet Sulaiman, Dawud, Ayyub, Isa, and Moses.
  - h. Also some warning for people about devil harassment.
  - i. Explaining Allah power which did not make sense for people.

Sayyid Quthb, *Indahnya al-Qur'an Berkisah*, translated from *at-Tashwirul Faniy fil-Qur'an* by Fathurrahman Abdul Hamid, Jakarta: Gema Insani Press, 2004, page. 158-170.

<sup>14</sup> *Ibid*, page. 157.

<sup>15</sup> *Op. cit*, Ahmad M. Sulaman, page. 88.

up to now. When these laws of three incidents above are fully understood through science, we are going to understand that all the miracles achieved in the past were carried out on scientific bases the unknown by their contemporaries<sup>16</sup>.

Is this consistent with the established order of things or is it through an inexplicable omnipotent power? Researcher think that the rapid advance of science with its miraculous discoveries will show us in the long run that all the phenomena of the universe, however abnormal they appear to people, are based on deep-rooted established principles and that our ignorance is the real cause of wrong belief in the miraculous of any occurrence however strange it may appear. And the universe itself is full to the brim of marvels far exceeding those that take place now and then.

The topic that researcher talking about were al-Qur'an and science. Al-Qur'an is miracle and Tele - Transference is science physics view. Both will work correctly and help human life when they could explore or interpret as well. By the time, appeared scientific exegesis (*Tafsir Ilmy*). Then to make it clear and understandable researcher will make it to be thematic interpretation. Researcher will collect and classify any verses which related to the topic.

Al-Qur'an is the last samawis' book wended to all human until day of reckoning gets in. Al-Qur'an is constitution for all epoch at all places, never discrepancy on it. No contradiction too on artless order and on natural laws that explained and on royal secret *Khaliq Jalla Jalâluhu* one that it reveals.

It is downed by clear Arabic, sentence and word comes from Allah SWT flank, so its interpretation may not get to standardized and is drawn the line at only grasp one occupant community an epoch or one generation just. Al-Qur'an verse is destined for human totally on words, meaning,

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<sup>16</sup> *Ibid*, page. 89.

guideline and information<sup>17</sup>. Therefore Allah SWT enjoins them to keep study, beating out its info and its purpose, so they can get knowledge from it and they get road map to determine research and its steps<sup>18</sup>.

Basically Al-Qur'an is holy book which determined faith and guidance, law and Syari'at, while Al-Qur'an also consists of some ayat kauniyah (scientific verses). It forced people especially researcher to search, learn, and talk. Mr. Rafi'I said that "some of our scholars have exposed from the Al-Qur'an about scientific invention and exposing some natural science that unknown by people. They were exposing by widely explanation, but it does not mean to discuss it more, it just a short clue and the trustworthy always can be proved by scientific modern."<sup>19</sup>

*Ulum Al-Qur'an* scholar agreed that *Tafsir Ilmy* is one kind of *Tafsir Tahlily*. But the simple divine of *Tafsir Ilmy* and according to J.J.G. Jansen<sup>20</sup> is Natural History is divined as an effort to understand Al-Qur'an verses using science modern findings as instrument<sup>21</sup>.

One sample of scientific interpretation is Thanthâwi Jauhari book from Egypt. He tried to interpret Al-Qur'an from scientific (newts scientific innovation) approach. That was used to uncover universe secrets and wisdom. Because, scientific paradigm gave support an understanding of Al-Qur'an verses and sciences.

Thanthâwi Jauhari is Moslem thinker and smartest scholar in Egypt; he was born in Kifr el-Wadillah on 1287H/1879M and passed away

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<sup>17</sup> Dr. Jamaluddin Mahran and Dr. 'Abdul 'Adzim Mubasyir *al-Qur'an Bertutur tentang Makanan dan Obat-obatan*, Yogyakarta: Mitra Pustaka Press, 2006, page. 48.

<sup>18</sup> Allah said in His holy book QS. Al-Furqan verse 2 :

الَّذِي لَهُ مُلْكُ السَّمَاوَاتِ وَالْأَرْضِ وَلَمْ يَتَّخِذْ وَلَدًا وَلَمْ يَكُنْ لَهُ شَرِيكٌ فِي الْمُلْكِ وَخَلَقَ كُلَّ شَيْءٍ فَقَدَرَهُ تَقْدِيرًا (2)

"He to whom belongs the dominion of the heavens and the earth, and who has begotten no son (children or offspring) and for whom there is no partner In the dominion. He has created everything, and has measured it exactly according to its due measurements. (2)"

Mean that based on the laws people had an obligation to do research relay on the system and natural law.

<sup>19</sup> Copied from M. Nor Ichwan, *Memasuki Dunia al-Qur'an*, Semarang: Lubuk Raya, 2001, page. 253.

<sup>20</sup> J.J.G. Jansen divided Tafsir opus into three part (1). Tafsir Ilmy, influenced by latest scientific result, (2). Linguistic and Philology Tafsir, (3). Daily Tafsir (tafsir which talked about human daily activities).

<sup>21</sup> *Op. cit*, M. Nor Ichwan, page. 127.

on 1358H/1940M. He is a famous researcher, he wrote many articles and journal in mass media, such as magazine *Malaji' al-A'lam*, *an-Nidham wa al-Umam* etc. Then some of his writing was collected and become a new book on title “*Al-Jawahir fi Tafsir Al-Qur'an al-Karim*”. There are 25 volumes. *Thanthâwi Jauhari* is very interested with *Muhammad Abduh* thought, when he gave lecture at *al-Azhar University*.

As holy book which is prevailing for all epoch and place, and in order not to lose its universality so it can converse and give solution answering human various problem along life epoch, therefore *Al-Qur'an* through its interpretation always needs to be featured (by interpreter) as book of guidance that always be actual, fresh and up to date.

Understanding *Al-Qur'an* and scientific innovations, according to *Abbas Mahmud al-Aqad* said that each human could conjugate *Al-Qur'an* bases with scientific innovation and not justified in the name of *Al-Qur'an* with its opinion<sup>22</sup>. One kind of the knowledge is nature science, it is a science talked about compilation of things and its expansion. Furthermore, we knew new path of science, it is physic. *Physic* also named as nature science on purpose to do research of some phenomena from things<sup>23</sup>.

Along with the spreading of Islamic world, progressively science become increase and printed, also appear the branches, difference idea and opinion come out, sect fanatics become serious and philosophy mixed up into naqli teaching also every single sect promote and support their own group<sup>24</sup>. Finally, interpreter view followed their grasp and pretends to be variety trend which arises various kind of methodic and interpretation pattern.

Diversity pattern of interpretation is also propped by *Al-Qur'an* situation, *Abdullah Darraj* said in *an-Naba 'al-Adzim* : “...such a diamond

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<sup>22</sup> *Sirajudin Zar, Konsep Penciptaan Alam Dalam Pemikiran Islam Sains dan Al-Qur'an*, Jakarta : Raja Grafindo Persada, page. 33.

<sup>23</sup> *Afzalur Rahman, al-Qur'an Sumber Ilmu Pengetahuan*, terj. Drs. H.M. Arifin, M.Ed., Jakarta: Penerbit Rineka Cipta, 2000, page. 71.

<sup>24</sup> *Mana' Qatan, Studi Ilmu-Ilmu al-Qur'an*, terj Muzakir, page. 455.

which is each angle emit in contrast to light what does be shone from the other angles, and it is not impossible if you go ahead others to see it, therefore he will see more a lot of what did you see”<sup>25</sup>.

Here is Al-Qur’an which is allegorized as diamond that each its angle emit light variably, it is mean that someone matter in interpretation might be different with another interpretation.

## **B. Formulations of Problems**

Based on Ahmad M. Sulaman statement that Tele – Transference theory loaded in three incidents of Sulaiman moving Queen Saba’ throne QS. An-Naml: 39-40, Isa ascension QS. Ali Imran: 55 and An-Nisa’: 157-158 and Muhammad PBUH Isra’ and Mi’raj QS. Al-Isra’: 1, the researcher experiencing much dejection and there will be mentioned on these questions:

1. What is Tele – Transference theory?
2. How does Thanthâwi Jauhari interpret those verses related to the current development of science?

## **C. Aim and Significance of Research**

### **a. The Aims**

After stated some problems, here are some purposes of this research:

1. Science governed the world. In the last 10 decades Tele – Transference theory built and developed by some experiments. Knowing Tele – Transference theory and its development is very important and will increase and stimulate Moslem scientist in progress civilization. And researcher will explain then.
2. To know how Thanthâwi Jauhari interpreted Tele-transference verses related to today physics result technology. So human especially scientist could use it as basic mainstream to establish. And it will increase human faith to God. The current development

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<sup>25</sup> Quraish Shihab, *Membumikan al-Qur’an*, Jakarta: Mizan 1995 cet IX, page. 7.

of science is the key in bargaining and will prove al-Qur'an characteristic *shalihun likulli zamân wa makân*.

**b. The Significance of Research**

1. The explanation of Tele – Transference verses will contribute one more evidence of Al-Qur'an miracle is his characteristic *shalihun likulli zamân wa makân*.
2. Al-Qur'an combining written and implied meaning, written meaning is like some verses which talked about praying **أقيموا الصلاة** ... الصلاة, and implied verses like Sulaiman or other Prophet miracle in the Tele - Transference verses. Unfortunately, some scholars just keep silent and receive the matter obedient. This is scientific interpreter chance to change the world view of interpretation. And knowing Thanthâwi Jauhari (*mufasssir ilmi*) interpretation will rich knowledge.

**D. Prior Research**

Unfortunately there is little book and literature that talk Tele - Transference. But, the several books are used in focusing this research and be the main reference of research, these are:

- *The Scientific Trends in the Quran*, by Ahmad M. Sulaman. This book gives us explanation about science and its relation to some verses of Al-Qur'an. It also talked little about Tele - Transference verses. This is researcher key of Tele - Transference. This book said that Tele - Transference is loaded on three incidents above.
- *Ensiklopedia Ilmu Dalam Al-Qur'an: Rujukan Terlengkap Isyarat-Isyarat Ilmiah Dalam Al-Qur'an* by Afzalurrahman this book explained and explored any verses which talked about science. Like, science of light, water, heat energy etc. Researcher used it to seek al-Qur'an view of Tele - Transference supported verses.
- Wisnu Arya Wardana book under title *Melacak Teori Einstein dalam Al-Qur'an*. There is no doubt that Einstein is the greatest Physician in

the world, and there are many physics result is basis of his thought. For example the relativity theory. Fortunately Einstein life along with Thanthâwi Jauhari, and finally Thanthâwi interpretation will be compared with Einstein.

- *Tafsir Maudlu'I Solusi Al-Qur'ani atas Masalah Sosial* by Prof. Dr. Nashruddin Baidan, he explained any problem of science by Al-Qur'anic perspective and he also explained any miraculous story in Al-Qur'an by sciences perspective like Isra' Mi'raj etc. researcher will take his interpretation of Isra' Mi'raj to support this thesis.
- *Tafsir Al-Jawahir-Kajian Metodologi Penafsiran Al-Qur'an Thanthâwi Jauhari* thesis paper by Isnawati from UIN Sunan Kalijaga Yogyakarta 2003, she told about Thanthâwi Jauhary interpretation book methodology. This thesis will help researcher describing Thanthâwi Jauhari method and it's characteristic. In IAIN Walisongo this thesis will be the first who talked and explored Thanthâwi Jauhari interpretation and it will be barometer.
- John Gribbin, *Fisika Kuantum-panduan bagi pemula ke dunia subatomic*, small but clear book. John explained Quantum Physics short and understandable. It helped researcher knowing Quantum theory and absolutely will help writing this thesis. Because this thesis is about the correlation and connection between al-Qur'an and Science (technology).

## E. Theoretical Framework

There is no one complete and perfect holy book in the world except Al-Qur'an. Because, it is the perfect and the glories holy book which is reading. Besides, Al-Qur'an is *al-Furqân* or distinguishing book which is used to differentiate between badness and goodness, kosher and bastard also instruction and prohibition.

Putting in modern science and Al-Qur'an for some people are kind of ridicules thing. Therefore west scientists who are materialistic group said that religion is no more than myth story and legend. So, there is no connection at all between science as the result of empiric<sup>26</sup> thought and religion.

Discussing about science and Al-Qur'an is as same as talking about interpreting Al-Qur'an on science view. Truthfully, this style has so long recognized in Islamic civilization history. This interpretation style starts on Abbasiyah dynasty, especially in al-Ma'mun governance, as implication of translating Greece scientific book into Arabic.

Unfortunately, only view scholar who concerned on *tafsir ilmy* (scientific interpretation). As mentioned in book *al-Mufasssirûn Hayâtuhum wa Manhajuhum* by Sayyid Muhammad 'Ali iyyazi that only 15 scholars<sup>27</sup>. Tafsir ilmy concerned to scientific approach. The central of the scientific interpreter (*Mufasssir*) are Muhammad bin 'Umar bin H<sub>u</sub>sain ar-Râzî, Thanthâwi Jauhari, Ahmad bin Mushthafa al-Marâghi, Muhammad Mahmûd al-Hijâzi and Sayyid Muhammad H<sub>u</sub>sain Thabâthabâi.

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<sup>26</sup> Drs. Nanang Gojali M. Ag "Manusia Pendidikan dan Sains dalam Perspektif Tafsir Hermeneutik" Jakarta: PT. Rineka Cipta, 2004. Page. 100 – based on total comprehension and experience; a suspicion that knowledge could be reached by experience or sensory. It is different with rationalism which said that mind has independent power to know and uncover main principles of nature or to the logic truth, before the appearance of experience, Pius dan Dahlan, *Loc.cit*, page. 148, 149 dan 654.

<sup>27</sup> *Loc. cit*, Sayyid Muhammad 'Ali iyyazi, page. 797-838.

Unfortunately, *Mufassir* did not realize with miracle story in al-Qur'an. They focused on who did or what *hadits* is narrated. After doing mini research, researcher found Thanthâwi Jauhari closer than another. Where another interpreter only focused on who did moving throne in Sulaiman or what is the real matter of ascending and descending even what did Isra' Mi'raj.

Thanthâwi Jauhari is Moslem thinker and smartest scholar in Egypt; he was born in Kifr el-Wadillah on 1287H/1879M and passed away on 1358H/1940M. He is a famous researcher, he wrote many articles and journal in mass media, such as magazine *Malaji' al-A'lam*, *an-Nidham wa al-Umam* etc. Then some of his writing was collected and become a new book on title "Al-Jawâhir fi Tafsîr Al-Qur'an al-Karîm". There are 25 volumes. Thanthâwi Jauhari is very interested with Muhammad Abduh thought, when he gave lecture at al-Azhar University<sup>28</sup>.

Moreover, he assertive Muhammad Abduh teaching in area of *sunnatullah*, and he said that *sunnatullah* theory is in accordance with nature phenomena which are created by Allah SWT. And Muhammad Abduh said that *sunnatullah* is Allah constitute rules that can not be revamped<sup>29</sup>. Thanthâwi also interested on physics, because of it, he tried to combine and compromise both Al-Qur'an and physics. He said that physics view to Al-Qur'an is used to eliminate some western misunderstanding that Islam is rejected modern science innovation. Whereas, there are 750 verses what talked about universe material and its phenomena. Unfortunately, just few people who understand interpret and talked about it (scientific verses)<sup>30</sup>.

The kind of modern interpretation is *Tafsir Ilmy* or scientific interpretation. There are some scholars who tried to define what scientific

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<sup>28</sup> *Loc. cit.*, Tanthawi Jauhari, page. 121.

<sup>29</sup> Harun Nasution, *Pembaharuan dalam Islam Sejarah Pemikiran dan Gerakan*, Jakarta: Bulan Bintang, 1992, page. 79.

<sup>30</sup> Thanthawi Jauhari, *al-Jawahir fi Tafsir al-Qur'an al-Karim*, Beirut: Intisyarat Afatat. Tt, vol. 1, page. 121.

interpretation is. J.J.G. Jasen said that in his book *Interpretation of the Koran in Modern Egypt*, it was natural history, the way to understand Al-Qur'an verses while using modern scientific result as tool. Moh. Nor Ichwan (2004) said that scientific interpretation is hard *ijtihad* from the interpreter exploring the correlation between *kauniyah* verses, which is accordance with modern science and the purpose to show up Allah SWT miraculous<sup>31</sup>.

And every single God creation has their value. As researcher explored above that Prophet miraculous consist of some hidden-meaning (scientific value) and we can learn it more deeply. Those basic sciences were missing the link for Moslem. Tele - Transference miraculous was described in Al-Qur'an clearly in the story of Sulaiman, Isa ascension and Prophet Muhammad PBUH Isra` Mi'raj<sup>32</sup>.

Characteristic of *Tafsir Ilmy* or scientific exegesis as an instrument to understand God messages', because there is prejudice that Al-Qur'an actually full of sciences, such as past science and modern science. In other word, Al-Qur'an actually has anticipated the modern sciences, *sabaq Al-Qur'an al-'Ilm al-Hadits*<sup>33</sup>.

Tafsir Ilmy also has their principle, there are (1). Linguistic rule, it is primer principle, because Al-Qur'an used Arabic word. So, scholars have to understand Arabic grammar, including Nahwu, Sharaf, Balaghah etc. And also consider every single word meaning. (2). Observe the verses correlation (*Munasabat al-Ayat*), because Al-Qur'an is wide and global, so scholar must be careful of understanding and correlate the verses, (3). Based on established scientific fact, mean that Al-Qur'an can be proofed with scientific result, (4). Thematic approach, to make it short, scholar put and classify the verse based on the theme<sup>34</sup>. And this last point will help

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130. <sup>31</sup> M. Nor Ichwan, *Tafsir Ilmy*, Yogyakarta : Penerbit Menara Kudus Jogja, 2004, page.

<sup>32</sup> *Loc. Cit*, Ahmad M. Sulaman, page. 88.

<sup>33</sup> *Ibid*, page. 130.

<sup>34</sup> *Ibid*, page. 158-172.

understanding Al-Qur'an. Because researcher will be focus based on topic and just collected similar verses which talked the same. Some *Tafsir Ilmiy* or Scientific Interpretation supporter more opened interpretation character and they thought that Al-Qur'an is scientific miraculous so its interpretation consist of modern scientific results<sup>35</sup>. That is what researcher will do in this research.

In the light of science man has begun to believe the probability of their occurrence; and science in researcher opinion will prove the truth of the principle on which those three great incidents above were based. Science is on its way to prove that there were no such things as miracle, as everything is carried out according to established laws most of which man has ignored up to now. When these laws of three incidents above are fully understood through science, we are going to understand that all the miracles achieved in the past were carried out on scientific bases the unknown by their contemporaries.

The Tele - Transference theory built from quantum physics theory. It is study about matter and radiation at atomic level. Today phenomena are about particle and wave debate. Particle was in some place at some time. Wave, for example sound wave, it spread around space. At atomic level, this difference is not valid. Electron known as particle could be like wave. As well as light known as wave, its half act just could be explained when it became particle, well known as photon. This wave-particle characteristic or researcher say "duality" only could be explained through quantum physics.

Begin with Max Planck constant theory where he divided light become to be small particle named quanta<sup>36</sup>. Then he determined unit energy on symbol  $E$ , to each quantum which is related to its frequency,  $f$ . the pattern is  $E = hf$  where  $h$  is new mathematic constant in nature. Max Planck theory explained that all things energy in the world distributed on

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<sup>35</sup> Ali Hasan al-'Aridh, *Sejarah dan Metodologi Tafsir*, Jakarta: Raja Grafindo Persada 1994, page. 62.

<sup>36</sup> Alan Isaac BSc, PhD. DIC, *Kamus Lengkap Fisika*, Jakarta: Erlangga, 1994, page. 354.

each atom. And every atom could radiate electromagnetic radiation in quanta shape<sup>37</sup>.

Max Planck theory disturbs Einstein. Then, he tried to pick Planck theory and applied it on his that light was spread as small particle. This is the basic theory of photoelectric effect, where electricity poured on electric combination when radiate light on metal plate and metal electron on it going to move and became electricity. This particle named as photon, then<sup>38</sup>.

Before light theory was discovered by Einstein, scientist only knew that light is kind of wave. But, after Einstein, it is also mentioned as particle. In the beginning of 1920, France scientist, Louis de Broglie appeared with his theory of electron which is considered as particle also could be wave and particle. Mean, he said that all things considered as both wave and particle, even human and vas, although both wave characteristic is not visible because both had heavy mass<sup>39</sup>.

The collaboration of those theories De Broglie with his electron theory, Einstein photon, Planck constant created Quantum, it is universal. This explained that on quantum reality wave and particle both were related and same<sup>40</sup>.

The tool of science understanding on this miraculous is physics phenomena. And through dialogic interpretation, we will try to show up hidden-meaning of Tele - Transference verses and all supported verses. Then, we will not stick on bad *taqlid* and stagnation. And M. Arkoun said “Al-Qur’an gave us unlimited predictive interpretation and it verses is waiting for new interpretation”<sup>41</sup>.

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<sup>37</sup> *Loc. cit*, John Gribbin, page. 15-16.

<sup>38</sup> *Ibid*, John Gribbin, page. 16-17.

<sup>39</sup> *Ibid*, John Gribbin, page. 26.

<sup>40</sup> *Ibid*, John Gribbin, page. 26.

<sup>41</sup> *Loc. cit*, Wisnu Arya Wardana *Melacak Teori Einstein*, page. 192.

## **F. Methodology of Research**

To reach complete, scientific and systematic results, the design of this methodology is as below:

### **a. Source of Data**

This research is library research, and the data's are divided into two sources:

- i. *Primary source data*, this kind of data is a data source from the original book that is Al-Quran. This is a main source that used as material research, and also *Al-Jawâhir fi Tafsîr al-Qur'an al-Karîm*, Thanthâwi Jauhari's book as a primary interpretation book and *The Scientific Trends in the Quran* by Ahmad M. Sulaman.
- ii. *Secondary data source*, the secondary sources of data are supporters, supplements and additional data sources that used in this research, such as *Fisika Kuantum-panduan bagi pemula ke dunia subatomic* by John Gribbin, *Tafsir Al-Jawahir-Kajian Metodologi Penafsiran Al-Qur'an Thanthâwi Jauhari* thesis S1 written by Isnawati, *Melacak Teori Einstein dalam Al-Qur'an* by Wisnu Arya Wardana, *Ensiklopedia Ilmu Dalam Al-Qur'an: Rujukan Terlengkap Isyarat-Isyarat Ilmiah Dalam Al-Qur'an* by Prof. Dr. Nashruddin Baidan.

### **b. Collecting Data**

The data collected by researcher including: Tele - Transference theory in physics view and verses in al-Qur'an. What are the theories and verses? Then researcher will combine or compare the theory in al-Qur'an and Physics.

Researcher also used Einstein opinion as the father of physician, especially his theory of Quantum and Relativity. Hence, it will overview and cross-check Thanthâwi Jauhari interpretation on Tele -

Transference verses and all supported verses (*if it is*), because both of them are life is same time.

### c. Collecting Data Method

This research is using “library research”, which supplied data or matter from book, website, journal, paper, seminar etc, which support and help to answer and solve the problem<sup>42</sup>. Data is collected by reading many literatures which related to the material of the research. Then, after collecting the data will be processed and analyzed in accordance with method that used in processing this research.

The collecting of data is library research, researcher will collect all data which is related with this thesis on occasion of understanding Qur’anic verses which explained and described the Tele - Transference phenomena. Therefore this explanation could be categorized to explorative research<sup>43</sup> by Thanthâwi Jauhari approach. And it would be look for the meaning and explanation from verses which accorded with the spirit of modern science. As the topic, the source had been needed, from the exegesis book of classic and modern, also *Ulum Al-Qur’an*. The *tafsir* book is such as al-Kasyaf by Zamakhsyari, Ibnu katsir, Tafsir wal Mufasssirun etc.

### d. Analysis Data Method

Collected data will be processed and analyzed by using qualitative method. Data is classified and it is told verbally until produce descriptions. Descriptive approach focused on splitting-up the problems which is related on nowadays view or result. It mean that here is Thanthâwi Jauhari interpretation connected with Physic nowadays theory. Researcher will explore Thanthâwi Jauhari method on his interpretation and what did he interpret. Then physics theory is used to review what today result is. From these descriptions, then

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<sup>42</sup> Hadari Nawawi, *Metodologi Penelitian Bidang Sosial*, Yogyakarta: Gajahmada press, 1991, page. 30.

<sup>43</sup> Suhasimi Arikunto, *Prosedur Penelitian: Suatu Pendekatan Teori dan Praktik*, Jakarta: Rineka Cipta, 2002, page. 126.

analyze further descriptions by using descriptive – analytical method and by using certain theoretical basic and the inductive and combining logical thinking. It was a hermeneutic, the art and knowledge of interpreting. Doing *tajdid* and *ijtihad* is not easy, therefore researcher should be hard explored al-Qur'an contents, because it contents is wide and branch out related to time. Generally, hermeneutic duty is flesh out al-Qur'an translation or interpretation in agree with science progression<sup>44</sup>.

Whereas, analysis data method this paper used qualitative analysis. Mean exploring a variety data resources and then researcher write it comprehensively, wide and in-depth on Tele - Transference verses and all supported. Searching deep information of *Thanthâwi Jauhari* interpretation book is using content analysis method. Then, researcher will over-view and combining *Thanthâwi Jauhari* interpretation with Physics today's view.

Tele - Transference is the main topic and the way to understand is collecting many verses which related to the topic, this is Thematic Studies. Researcher is getting down the cases from today science result (technology) and al-Qur'an verses that have correlation with the topic<sup>45</sup>. Finally, after collecting and analyzing Tele - Transference from any approach as commentary from interpreter, *asbab nuzul* (if they were present), grammar, argumentation from tradition (Sunnah if they were present), linguistic and scientific to explain it, belonging researcher agreement who rational the accountable as scientific<sup>46</sup>. These explained away while being supported from Al-Qur'an and *Hadits* theorem, along with fact finding which is scientifically accountable.

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<sup>44</sup> *Loc. cit*, Wisnu Arya Wardana *Melacak Teori Einstein*, page. 9.

<sup>45</sup> Pedoman Tafsir Modern (Buku Pegangan Mahasiswa dan Para Peneliti al-Qur'an serta Masalah-Masalah Keislaman), page. 23.

<sup>46</sup> Nasruddin Baidan, *Metodologi Penafsiran al-Qur'an*, Yogyakarta: Pustaka Pelajar, 1998, page. 151

## **G. Writing Systematic**

My paper could be explained on writing systematic as below to get and stick my focuses:

Chapter I Introduction consists of background, problems, aim and significance of research, prior research, theoretical framework, methodology of research, and writing systematic.

Chapter II Tele - Transference Theory in Scientific View, consist of Tele - Transference in Physics Theory (Light Theory and Waves Theory), some example of Tele - Transference: Transportation, Internet and Communication also little bit Einstein Quantum Theory

Chapter III Tele - Transference in Al-Qur'an according to Thanthâwi Jauhari, consist of Tanthawi Jauhari biography, then Method of Thanthâwi Jauhari's interpretation, Tele - Transference in Al-Qur'an; Sulaiman Incident (QS. An-Naml: 34) - Isa Ascension (QS. Ali-Imran: 55 and An-Nisa': 157-158) - Muhammad Isra' Mi'raj (QS. Al-Isra': 1), Thanthâwi Jauhary interpretation on the Tele - Transference verses

Chapter IV Analysis, consist of Thanthâwi Jauhari Interpretation among another interpreter and the correlation between Tele - Transference on quranic perspective and scence perspective

Chapter V Closing consists of conclusion, suggestion and closing.