

The Classification of The Quranic Suras - Part One: Structural Analysis and Organization into Groups Generated by Sura Al-Fātiḥah

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Abstract

This study aims to assess, using a rigorous scientific approach, whether the current ordering of the Quranic suras results from an intentional and predetermined organization or from a random arrangement. The methodology is based on discovery of a fundamental mathematical property, Equation 1 ($SV = 49N + 2V$), which establishes a unique functional relationship between the sum of the sura numbers (N), the total number of verses (V), and the sum of the verse numbers (SV) of the Noble Quran. The analysis used the sign of the ranking value $D(a)$, derived from Equation (1), as a criterion to distribute the surahs into major structural groups (TA, TB, BZ), thereby revealing a coherent underlying architecture. This research has brought to light remarkable structural properties governing these groups and their subdivisions (BZ_1 , BZ_2 , IZ_1 , IZ_2), including a series of equilibrium equations such as $S(TB) = 2 \times S(TA)$ and $N(IZ_2) = 2 \times V(IZ_1)$. The study further demonstrates the central functional role of specific suras, such as Sura Al-Fātiḥah, acting as a regulatory pivot. The mathematically verifiable, interdependent complexity and coherence of this architecture constitute strong evidence of a non-random design. A complementary part of this research, dedicated to the analysis of other partitions, will further consolidate this model. The ultimate objective is to demonstrate that the Quran adheres to a coherent and sophisticated internal mathematical organization, thereby confirming the validity and relevance of its current canonical order.

1. Introduction

The ordering of the Quranic suras continues to raise questions in Western academic circles. Influential authors, such as John Wansbrough (1977), have presented it as the result of a late and fragmentary compilation, seemingly devoid of a unifying structural logic [1]. These questions are not new, as evidenced by the divine response provided in verse 32 of sura 25:

"And those who disbelieve say, 'Why was the Qur'an not revealed to him all at once?' [It is] thus that We may strengthen thereby your heart. And We have recited it [to you] in a measured recitation (or: and We have arranged it in the best possible order)."

The phrase "in the best possible order" suggests an underlying organization whose precise nature remains to be elucidated. Although revealed progressively, the Quran presents a final arrangement that appears to obey a profound structural logic, defying conventional explanations of random compilation (Déroche, 2014) [2].

Nomenclature

| | |
|-----------|---|
| TG | General table consisting of all the suras |
| Ti | Table i consisting of a group of suras |
| $N(TG)$ | Sum of the Sura numbers in table TG |
| $N(Ti)$ | Sum of the Sura numbers in table Ti |
| $V(Ti)$ | Sum of the verses (or number of verses) of the suras in the Ti table |
| $SV(Ti)$ | Sum of the numbers of the verses of the suras in the Ti table |
| $SR1(Ti)$ | Regularization relation of the Ti table: $SRi(Ti) = 49N(Ti) + 2V(Ti)$ |
| $D(Ti)$ | Ordering relation $D(Ti) = SRi(Ti) - SV(Ti)$ |

2. Methodological Framework

2.1 Fundamental Principles and Continuity

This research constitutes a direct continuation of the study entitled "Proof of the Authenticity of the Holy Quran: Discovering the Precise Mathematical Arrangement Using Sūrat Fussilat" [3]. Relying on the same fundamental mathematical framework, the present work draws exclusively on the Quran's internal data, namely the surah numbers, the number of verses, and the verse numbers, and rigorously verifiable mathematical operations. In accordance with the principle of a rigorous analysis of the Holy Qur'an, no external hypothesis, whether historical, linguistic, or theoretical, is introduced. This study aims to demonstrate that the canonical arrangement of the suras is not random but corresponds to a coherent, hierarchical and verifiable mathematical architecture. To achieve this objective, our approach is structured around the following axes:

- Deduce the regularization and ranking relations from Equation 1, identified in a previous study during the examination of "Verse and Number Inversion" [3].
- Determine the different structural groups (TA, TB, BZ) and their characteristic equations.
- Establish the distinctive properties of each group and their systemic interactions, thereby revealing a previously unexplored level of structural organization.

2.2 Analysis and Methodological Procedure

The achievement of these objectives is based on a sequential and reproducible methodological procedure, structured into six steps.

Step 1: The Fundamental Equation

The process was initiated by a specific structural observation: the examination of verse inversion between suras belonging to the same group. This led us to investigate three fundamental parameters for the entire Quranic corpus:

- $N(TG)$: The sum of sura numbers (from 1 to 114) = 6555
- $V(TG)$: The total number of verses = 6236
- $SV(TG)$: The sum of all verse numbers = 333,667

The search for a linear relationship between these three quantities resulted in the following equation: $6555u + 6236v = 333667$

Solving this equation, via the Extended Euclidean Algorithm, yielded a unique positive integer solution: $(u, v) = (49, 2)$, henceforth referred to as Equation 1: $SV(TG) = 49 \times N(TG) + 2 \times V(TG)$

Step 2: Definition of Regularization and Ranking Relations

For any subset of suras Ti (where Ti can be a group or a single sura), we define:

- $SR1(Ti)$: The Regularization Value, calculated as $49 \times N(Ti) + 2 \times V(Ti)$. It represents the theoretical sum of verse numbers based on Equation 1.
- $SV(Ti)$: The Actual Sum of verse numbers for the suras in Ti .
- $D(Ti)$: The Ranking Value, defined as $D(Ti) = SR1(Ti) - SV(Ti)$. This metric quantifies the deviation from the theoretical model and serves as the primary tool for classification.

Step 3: Primary Structural Classification via the Ranking Value $D(a)$

Each sura was analysed individually by calculating its $D(a)$. The sign of $D(a)$ (positive, negative, or zero) is the fundamental criterion for the initial structural partitioning:

- Group TA: A contiguous block of suras where $D(a)$ is consistently Negative.
- Group TB: A contiguous block of suras where $D(a)$ is consistently Positive.
- Group BZ: The residual set of suras exhibiting a mixed pattern of positive and negative $D(a)$ values, located between TA and TB.

Step 4: Advanced Partitioning and the Role of a Regulatory Element

The mixed group BZ is then partitioned into subgroups BZ_1 and BZ_2 based on the sign of $D(a)$. A crucial step is the identification and functional displacement of Sura 1 (Al-Fātiḥah). With a positive $D(a)$, it is strategically assigned to BZ_2 , acting as a mobile regulatory element.

Step 5: IZ Sub-groups and the Common Zone PI

The group BZ_2 undergoes a more granular level of analysis by subdividing into two distinct intervals:

- IZ_1 : Subset of BZ_2 comprising suras whose number is less than 43.
- IZ_2 : Subset of BZ_2 comprising suras located in the interval [43, 62].

Concurrently, a common zone (PI) within the interval [43, 62] is identified. This zone is not an additional group but an analytical view that allows for the visualization of the interaction of the three main groups (TA, TB, BZ) in this region. It consists of:

- PI_1 : Structurally belongs to TA.
- PI_2 : Structurally belongs to TB.
- IZ_2 : Structurally belongs to BZ_2 .

Step 6: Multi-scale Balance Verification

The final step involves verifying the consistency and intentionality of the derived structure across all hierarchical levels by testing global and local mathematical relationships, such as:

- $S(TB) = 2 \times S(TA)$ (The number of suras in group TB is twice that in group TA).
- $S(BZ_2) = 2 \times S(BZ_1)$ (The number of suras in subgroup BZ_2 is twice that in subgroup BZ_1).
- $N(IZ_2) = 2 \times V(IZ_1)$ (Multiple concordance between the subgroups of BZ_2).

The successful validation of this network of equations confirms the model's coherence and provides strong evidence of a non-random, integrated, and highly sophisticated design.

3. Relation $SV(TG)$

Context of Discovery:

The examination of verse inversion between the surahs of the same group, conducted in a previous study [3], revealed a remarkable mathematical relationship between three fundamental parameters of the Qur'an:

The sum of the Sura numbers (N)

The total number of verses (V)

The sum of the verse numbers (SV)

Problem Statement: The Three Global Values

$N(TG) = 6555$ (sum of integers from 1 to 114)

$V(TG) = 6236$ (total number of verses)

$SV(TG) = 333667$ (sum of the numbers of all verses)

Since they are coprime, we investigated whether they satisfy a linear relation of the form:

$6555u + 6236v = 333667$ where $(u, v) \in \mathbb{N}^2$ are the unknown integers to be determined.

Mathematical Resolution

a. Existence of Solutions

$GCD(6555,6236) = 1 \rightarrow$ The equation admits integer solutions (Bézout's Identity Theorem)

b. Search for a Particular Solution:

Using the extended Euclidean algorithm, we obtain: $1 = 2815 \times 6555 - 2959 \times 6236$

Multiplying by 333667: $333667 = (2815 \times 333667) \times 6555 + (-2959 \times 333667) \times 6236$

Particular solution: $(u_0, v_0) = (939272605, -987320653)$

c. General Solution and Positivity

General solution: $u = 939272605 + 6236t, v = -987320653 - 6555t (t \in \mathbb{Z})$

Positivity conditions: $u > 0$ and $v > 0$

The unique integer satisfying these conditions: $t = -150621$. Unique positive solution : $u = 49, v = 2$

Conclusion: The fundamental relation is written as: $SV(TG) = 49 \times N(TG) + 2 \times V(TG)$ (Equation 1)

3.1 Regularization relation $SR1(Ti)$

Definition: Let Ti be a subgroup of Suras belonging to the set TG .

When $SV(Ti) \neq 49 \times N(Ti) + 2 \times V(Ti)$, we define the regularization relation $SR1(Ti)$ by:

$SR1(Ti) = 49 \times N(Ti) + 2 \times V(Ti)$ (Equation 2). Where:

$N(Ti)$: sum of the Sura numbers of group Ti

$V(Ti)$: sum of the number of verses of the Suras of group Ti

$SV(Ti)$: sum of the verse numbers of the Suras of Ti

Application

If $SR1(Ti) = SV(Ti)$, then the sum of the Sura numbers of group Ti can be determined as a function of their verses by applying equation (1):

$N(Ti) = (SV(Ti) - 2V(Ti))/49$. Or alternatively, $N(Ti) = (V(Ti)^2 - 3V(Ti))/98$

Example:

| N(t8) | Name Sura | V(t8) | SV(t8) |
|-------|--------------|-------|--------|
| 10 | yunus | 109 | 5995 |
| 13 | Ar raad | 43 | 946 |
| 15 | Al-Hijr | 99 | 4950 |
| 17 | Al-Isra | 111 | 6216 |
| 22 | Al-Hajj | 78 | 3081 |
| 29 | Al-Ankabut | 69 | 2415 |
| 34 | Saba | 54 | 1485 |
| 50 | Qaf | 45 | 1035 |
| 51 | Adh-Dhariyat | 60 | 1830 |
| 63 | Al-Munafiqun | 11 | 66 |
| 71 | Nuh | 28 | 406 |
| 73 | Al-Muzzammil | 20 | 210 |
| 107 | Al-Ma'un | 7 | 28 |
| 555 | | 734 | 28663 |

We have: $49N(T8) + 2V(T8) = SV(T8) \Rightarrow 49 * 555 + 2 * 734 = 27195 + 1468 = 28663$

3.2 Ranking Relation $D(Ti)$

Definition

The ranking relation for the Suras in table Ti is defined as the difference between the regularization value $SR1(Ti)$ and the actual sum of the verse numbers $SV(Ti)$. This relation is expressed by:

$D(Ti) = SR1(Ti) - SV(Ti)$ (Equation 3)

Ranking Value

Once the Sura numbers and the number of verses are determined, the relation $D(T_i)$ can be calculated, and its value will be referred to as the ranking value for the Suras in table Ti.

For an individual Sura 'a', the ranking relation becomes: $D(a) = SR1(a) - SV(a)$

where $D(a)$ represents the ranking value of Sura 'a'.

Application

The systematic application of this relation to the entire set of Suras in the Quran makes it possible to establish a quantitative ranking value for each Sura

4. Ranking the Suras of the Quran by Groups

General Table TG

The analysis of the ranking value $D(TG)$ for the entire Quranic corpus (general table TG) allows for the establishment of a structural ranking of the Suras into coherent groups.

Table 1 Quranic structural parameters: the number of surahs (n), the number of verses (v), and the ranking values $D(TG)$

| N(TG) | Name Sura | V(TG) | D(TG) | N(TG) | Name Sura | V(TG) | D(TG) |
|-------|-------------|-------|--------|-------|----------------|-------|-------|
| 1 | Al-Fatihah | 7 | 35 | 58 | Al-Mujadila | 22 | 2633 |
| 2 | Al-Baqarah | 286 | -40371 | 59 | Al-Hashr | 24 | 2639 |
| 3 | Ali 'Imran | 200 | -19553 | 60 | Al-Mumtahanah | 13 | 2875 |
| 4 | An-Nisa | 176 | -15028 | 61 | As-Saf | 14 | 2912 |
| 5 | Al-Ma'idah | 120 | -6775 | 62 | Al-Jumu'ah | 11 | 2994 |
| 6 | Al-An'am | 165 | -13071 | 63 | Al-Munafiqun | 11 | 3043 |
| 7 | Al-A'raf | 206 | -20566 | 64 | At-Taghabun | 18 | 3001 |
| 8 | Al-Anfal | 75 | -2308 | 65 | At-Talaq | 12 | 3131 |
| 9 | At-Tawbah | 129 | -7686 | 66 | At-Tahrim | 12 | 3180 |
| 10 | Yunus | 109 | -5287 | 67 | Al-Mulk | 30 | 2878 |
| 11 | Hud | 123 | -6841 | 68 | Al-Qalam | 52 | 2058 |
| 12 | Yusuf | 111 | -5406 | 69 | Al-Haqqah | 52 | 2107 |
| 13 | Ar-Ra'd | 43 | -223 | 70 | Al-Ma'arij | 44 | 2528 |
| 14 | Ibrahim | 52 | -588 | 71 | Nuh | 28 | 3129 |
| 15 | Al-Hijr | 99 | -4017 | 72 | Al-Jinn | 28 | 3178 |
| 16 | An-Nahl | 128 | -7216 | 73 | Al-Muzzammil | 20 | 3407 |
| 17 | Al-Isra | 111 | -5161 | 74 | Al-Muddaththir | 56 | 2142 |
| 18 | Al-Kahf | 110 | -5003 | 75 | Al-Qiyamah | 40 | 2935 |
| 19 | Maryam | 98 | -3724 | 76 | Al-Insan | 31 | 3290 |
| 20 | Taha | 135 | -7930 | 77 | Al-Mursalat | 50 | 2598 |
| 21 | Al Anbya | 112 | -5075 | 78 | An-Naba | 40 | 3082 |
| 22 | Al-Hajj | 78 | -1847 | 79 | An-Nazi'at | 46 | 2882 |
| 23 | Al-Mu'minin | 118 | -5658 | 80 | 'Abasa | 42 | 3101 |
| 24 | An-Nur | 64 | -776 | 81 | At-Takwir | 29 | 3592 |
| 25 | Al-Furqan | 77 | -1624 | 82 | Al-Infitar | 19 | 3866 |
| 26 | Ash-Shu'ara | 227 | -24150 | 83 | Al-Mutaffifin | 36 | 3473 |
| 27 | An-Naml | 93 | -2862 | 84 | Al-Inshiqaq | 25 | 3841 |
| 28 | Al-Qasas | 88 | -2368 | 85 | Al-Buruj | 22 | 3956 |
| 29 | Al-'Ankabut | 69 | -856 | 86 | At-Tariq | 17 | 4095 |
| 30 | Ar-Rum | 60 | -240 | 87 | Al-A'la | 19 | 4111 |
| 31 | Luqman | 34 | 992 | 88 | Al-Ghashiyah | 26 | 4013 |
| 32 | As-Sajdah | 30 | 1163 | 89 | Al-Fajr | 30 | 3956 |

| N(TG) | Name Sura | V(TG) | D(TG) | N(TG) | Name Sura | V(TG) | D(TG) | |
|-------|--------------|-------|--------|-------|-------------|-------|-------|---|
| 33 | Al-Ahzab | 73 | -938 | 90 | Al-Balad | 20 | 4240 | |
| 34 | Saba | 54 | 289 | 91 | Ash-Shams | 15 | 4369 | |
| 35 | Fatir | 45 | 770 | 92 | Al-Layl | 21 | 4319 | |
| 36 | Ya-Sin | 83 | -1556 | 93 | Ad-Duhaa | 11 | 4513 | |
| 37 | As-Saffat | 182 | -14476 | 94 | Ash-Sharh | 8 | 4586 | |
| 38 | Sad | 88 | -1878 | 95 | At-Tin | 8 | 4635 | |
| 39 | Az-Zumar | 75 | -789 | 96 | Al-'Alaq | 19 | 4552 | |
| 40 | Ghafir | 85 | -1525 | 97 | Al-Qadr | 5 | 4748 | |
| 41 | Fussilat | 54 | 632 | 98 | Al-Bayyinah | 8 | 4782 | |
| 42 | Ash-Shuraa | 53 | 733 | 99 | Az-Zalzalah | 8 | 4831 | |
| 43 | Az-Zukhruf | 89 | -1720 | 100 | Al-'Adiyat | 11 | 4856 | |
| 44 | Ad-Dukhan | 59 | 504 | 101 | Al-Qari'ah | 11 | 4905 | |
| 45 | Al-Jathiyah | 37 | 1576 | 102 | At-Takathur | 8 | 4978 | |
| 46 | Al-Ahqaf | 35 | 1694 | 103 | Al-'Asr | 3 | 5047 | |
| 47 | Muhammad | 38 | 1638 | 104 | Al-Humazah | 9 | 5069 | |
| 48 | Al-Fath | 29 | 1975 | 105 | Al-Fil | 5 | 5140 | |
| 49 | Al-Hujurat | 18 | 2266 | 106 | Quraysh | 4 | 5192 | |
| 50 | Qaf | 45 | 1505 | 107 | Al-Ma'un | 7 | 5229 | |
| 51 | Adh-Dhariyat | 60 | 789 | 108 | Al-Kawthar | 3 | 5292 | |
| 52 | At-Tur | 49 | 1421 | 109 | Al-Kafirun | 6 | 5332 | |
| 53 | An-Najm | 62 | 768 | 110 | An-Nasr | 3 | 5390 | |
| 54 | Al-Qamar | 55 | 1216 | 111 | Al-Masad | 5 | 5434 | |
| 55 | Ar-Rahman | 78 | -230 | 112 | Al-Ikhlash | 4 | 5486 | |
| 56 | Al-Waqi'ah | 96 | -1720 | 113 | Al-Falaq | 5 | 5532 | |
| 57 | Al-Hadid | 29 | 2416 | 114 | An-Nas | 6 | 5577 | |
| | | | | 6555 | | | 6236 | 0 |

4.1 Distribution of the Suras of the Quran into Groups According to the D(TG) Sign

4.1.1 Classification Principle

The analysis of the canonical ordering of the suras according to the sign of the ranking relation D(TG) makes it possible to distinguish three main groups: TA, BZ, and TB.

Methodology:

- Each group is delimited by the Suras immediately preceding a change in the sign of D(TG).
- These "limit" Suras are identified by grey shading in Tables 1 and 2.

4.1.2 Description of the Three Groups

a) Group TA: Negative Ranking Values

Interval of suras 2 to 30: Consecutive suras sharing the same sign.

Lower limit: S(2, 286), the first Sura showing a sign change after S(1, 7)

Upper limit: S(30, 60), the last Sura preceding the sign change at S(31, 34)

Characteristic: All D(TG) values are negative

b) Group TB: Positive Ranking Values

Interval of suras 57 to 114: Consecutive suras sharing the same sign.

Lower limit: S(57, 29) – the first Sura showing a sign change after S(56, 96)

Characteristic: All D(TG) values are positive

c) Group BZ: Mixed Ranking Values

Interval of suras 31 to 56: Suras with opposite/negative and positive signs

Limits: TA side: S(31, 34), TB side: S(56, 96)

Particularity: Includes Sura No. 1 (its position will be explained later)

Characteristic: A mix of positive and negative D(TG) values

4.1.3 Sub-Division of Group BZ

The BZ group will be subdivided into two sub-groups:

BZ₁: Suras with negative D(TG) values

BZ₂: Suras with positive D(TG) values

4.1.4 Remarkable Numerical Relation

A significant mathematical proportion between the groups is observed:

Table 2 Proportional relationship between TB, BZ₂ and TA, BZ

| Groups with Positive D(TG) | Groups with Negative D(TG) | Relation |
|----------------------------|----------------------------|---|
| TB | TA | Number of suras in TB = 2×number of suras in TA |
| BZ ₂ | BZ ₁ | Number of suras in BZ ₂ = 2×number of suras in BZ ₁ |

This doubling relationship is illustrated in Figure 4.3(a).

4.1.5 Table TA, BZ and TB

Table 3 Quranic structural parameters of the TA, BZ, and TB tables: the number of suras (n), the number of verses (v), and the ranking values D(TG)

| Table TA | | | Table BZ | | | Table TB | | | Table TB continued | | |
|----------|-------|--------|----------|-------|--------|----------|-------|-------|--------------------|-------------|----------|
| N(TA) | V(TA) | D(TA) | N(BZ) | V(BZ) | D(BZ) | N(TB) | V(TB) | D(TB) | N(TB) | V(TB) | D(TB) |
| 1 | 7 | 35 | 31 | 34 | 992 | 57 | 29 | 2416 | 86 | 17 | 4095 |
| 2 | 286 | -40371 | 32 | 30 | 1163 | 58 | 22 | 2633 | 87 | 19 | 4111 |
| 3 | 200 | -19553 | 33 | 73 | -938 | 59 | 24 | 2639 | 88 | 26 | 4013 |
| 4 | 176 | -15028 | 34 | 54 | 289 | 60 | 13 | 2875 | 89 | 30 | 3956 |
| 5 | 120 | -6775 | 35 | 45 | 770 | 61 | 14 | 2912 | 90 | 20 | 4240 |
| 6 | 165 | -13071 | 36 | 83 | -1556 | 62 | 11 | 2994 | 91 | 15 | 4369 |
| 7 | 206 | -20566 | 37 | 182 | -14476 | 63 | 11 | 3043 | 92 | 21 | 4319 |
| 8 | 75 | -2308 | 38 | 88 | -1878 | 64 | 18 | 3001 | 93 | 11 | 4513 |
| 9 | 129 | -7686 | 39 | 75 | -789 | 65 | 12 | 3131 | 94 | 8 | 4586 |
| 10 | 109 | -5287 | 40 | 85 | -1525 | 66 | 12 | 3180 | 95 | 8 | 4635 |
| 11 | 123 | -6841 | 41 | 54 | 632 | 67 | 30 | 2878 | 96 | 19 | 4552 |
| 12 | 111 | -5406 | 42 | 53 | 733 | 68 | 52 | 2058 | 97 | 5 | 4748 |
| 13 | 43 | -223 | 43 | 89 | -1720 | 69 | 52 | 2107 | 98 | 8 | 4782 |
| 14 | 52 | -588 | 44 | 59 | 504 | 70 | 44 | 2528 | 99 | 8 | 4831 |
| 15 | 99 | -4017 | 45 | 37 | 1576 | 71 | 28 | 3129 | 100 | 11 | 4856 |
| 16 | 128 | -7216 | 46 | 35 | 1694 | 72 | 28 | 3178 | 101 | 11 | 4905 |
| 17 | 111 | -5161 | 47 | 38 | 1638 | 73 | 20 | 3407 | 102 | 8 | 4978 |
| 18 | 110 | -5003 | 48 | 29 | 1975 | 74 | 56 | 2142 | 103 | 3 | 5047 |
| 19 | 98 | -3724 | 49 | 18 | 2266 | 75 | 40 | 2935 | 104 | 9 | 5069 |
| 20 | 135 | -7930 | 50 | 45 | 1505 | 76 | 31 | 3290 | 105 | 5 | 5140 |
| 21 | 112 | -5075 | 51 | 60 | 789 | 77 | 50 | 2598 | 106 | 4 | 5192 |
| 22 | 78 | -1847 | 52 | 49 | 1421 | 78 | 40 | 3082 | 107 | 7 | 5229 |
| 23 | 118 | -5658 | 53 | 62 | 768 | 79 | 46 | 2882 | 108 | 3 | 5292 |
| 24 | 64 | -776 | 54 | 55 | 1216 | 80 | 42 | 3101 | 109 | 6 | 5332 |
| 25 | 77 | -1624 | 55 | 78 | -230 | 81 | 29 | 3592 | 110 | 3 | 5390 |
| 26 | 227 | -24150 | 56 | 96 | -1720 | 82 | 19 | 3866 | 111 | 5 | 5434 |
| 27 | 93 | -2862 | | | | 83 | 36 | 3473 | 112 | 4 | 5486 |
| 28 | 88 | -2368 | | | | 84 | 25 | 3841 | 113 | 5 | 5532 |
| 29 | 69 | -856 | | | | 85 | 22 | 3956 | 114 | 6 | 5577 |
| 30 | 60 | -240 | | | | | | | 6555 | 6236 | 0 |

Note: Sura 1 occupies a distinctive place, it will be placed in the BZ table.

4.2 Distribution of the Suras of the TA, BZ TB According to the Number of Verses

4.2.1 Principle of the New Distribution

Following the initial organization of tables TA, BZ, and TB according to the sign of Equation 1, a more detailed analysis was performed based on the number of verses in the Suras.

Fundamental Observation

The three tables exhibit a remarkable common zone containing the Suras belonging to the interval [43, 62]. This discovery leads to an additional layer of organization for the Suras into three distinct intervals:

- [3, 42]
- [43, 62] (common zone)
- [64, 286]

As a result, the TA, TB, and BZ groups share a common subdivision: a common subgroup consisting of the suras belonging to the interval [43, 62].

4.2.2 An Additional Layer of Organization in Table TA

Transformation

The initial TA table (Suras in the interval [43, 286]) is divided into two new tables:

Table 4 Characteristics of the new tables TA' and PI1

| New Table | Interval | Number of Suras | Sign of D(TG) |
|-----------|-----------|-----------------|---------------|
| TA' | [64, 286] | 26 Suras | Negative |
| PI1 | [43, 62] | 3 Suras | Negative |

Common characteristic: Both tables retain negative ranking values.

4.2.3 Special Note: Position of Sura 1

Important Note: Sura 1 (Al-Fatihah) occupies a distinctive position and will be integrated into table BZ. Its exact placement within this table will be the subject of a detailed subsequent analysis. Its status as the first sura being revealed by Equation 1, it will be considered the foundational postulate of this study.

4.2.4 Tables TA, TA' and PI1 (Continued)

A detailed analysis of table TA makes it possible to distribute its surahs into two distinct subgroups: This segmentation allows for a more precise analysis of the mathematical properties underlying the structural organization of the Quran.

Table 5 Quranic structural parameters of the TA, TA' and PI1 tables: the number of suras (n), the number of verses (v), and the ranking values $D(TG)$

| Table TA | | | Table TA' | | | Table PI1 | | |
|------------|-------------|----------------|------------|-------------|----------------|-----------|------------|--------------|
| N(TA) | V(TA) | D(TA) | N(TA') | V(TA') | D(TA') | N(PI1) | V(PI1) | D(PI1) |
| 2 | 286 | -40371 | 2 | 286 | -40371 | 30 | 60 | -240 |
| 26 | 227 | -24150 | 26 | 227 | -24150 | 14 | 52 | -588 |
| 7 | 206 | -20566 | 7 | 206 | -20566 | 13 | 43 | -223 |
| 3 | 200 | -19553 | 3 | 200 | -19553 | 57 | 155 | -1051 |
| 4 | 176 | -15028 | 4 | 176 | -15028 | | | |
| 6 | 165 | -13071 | 6 | 165 | -13071 | | | |
| 20 | 135 | -7930 | 20 | 135 | -7930 | | | |
| 9 | 129 | -7686 | 9 | 129 | -7686 | | | |
| 16 | 128 | -7216 | 16 | 128 | -7216 | | | |
| 11 | 123 | -6841 | 11 | 123 | -6841 | | | |
| 5 | 120 | -6775 | 5 | 120 | -6775 | | | |
| 23 | 118 | -5658 | 23 | 118 | -5658 | | | |
| 21 | 112 | -5075 | 21 | 112 | -5075 | | | |
| 12 | 111 | -5406 | 12 | 111 | -5406 | | | |
| 17 | 111 | -5161 | 17 | 111 | -5161 | | | |
| 18 | 110 | -5003 | 18 | 110 | -5003 | | | |
| 10 | 109 | -5287 | 10 | 109 | -5287 | | | |
| 15 | 99 | -4017 | 15 | 99 | -4017 | | | |
| 19 | 98 | -3724 | 19 | 98 | -3724 | | | |
| 27 | 93 | -2862 | 27 | 93 | -2862 | | | |
| 28 | 88 | -2368 | 28 | 88 | -2368 | | | |
| 22 | 78 | -1847 | 22 | 78 | -1847 | | | |
| 25 | 77 | -1624 | 25 | 77 | -1624 | | | |
| 8 | 75 | -2308 | 8 | 75 | -2308 | | | |
| 29 | 69 | -856 | 29 | 69 | -856 | | | |
| 24 | 64 | -776 | 24 | 64 | -776 | | | |
| 30 | 60 | -240 | 407 | 3307 | -221159 | | | |
| 14 | 52 | -588 | | | | | | |
| 13 | 43 | -223 | | | | | | |
| 464 | 3462 | -222210 | | | | | | |

Methodology Grouping Objective

Purpose of the Structural Distribution into Tables

The fundamental objective of constituting groups of Suras into distinct tables is to determine the sum of the Sura numbers within each set. The formation of Sura groups into distinct tables has the fundamental objective of determining the sum of the Sura numbers within each set. It should be noted that the number of verses per Sura is a known parameter, and that their distribution within groups G1 to G4 preserves the original configuration. However, the Sura numbers themselves are assumed to be unknown.

Methodological Principle

The underlying hypothesis posits that each group, when properly delineated according to specific criteria, exhibits intrinsic mathematical rules and properties.

Operational Necessity

Discovering and applying these specific properties is essential to accurately determine the sum of elements in the columns of tables TA, TB, BZ, and all other defined sets.

Notation Convention

Variable Designation System

To facilitate calculation operations in this system containing numerous equations, the parameters to be determined will be uniformly designated according to the following convention:

- Assigned letter: **X**
- Identification subscript: number of the corresponding sura

Notation Example

For the sura bearing number 25: X_{25}

General Application

Thus, all sura numbers will be represented by variables noted X_n , where *n* corresponds to the sura number, and whose values are initially considered unknown.

Sum Parameter of TA:

$$N(TA) = X_2 + X_3 + X_4 + X_5 + X_6 + X_7 + X_8 + X_9 + X_{10} + X_{11} + X_{12} + X_{13} + X_{14} + X_{15} + X_{16} + X_{17} + X_{18} + X_{19} + X_{20} + X_{21} + X_{22} + X_{23} + X_{24} + X_{25} + X_{26} + X_{27} + X_{28} + X_{29} + X_{30} \quad (4)$$

Sum Parameter of TA' :

$$N(TA') = X_2 + X_3 + X_4 + X_5 + X_6 + X_7 + X_8 + X_9 + X_{10} + X_{11} + X_{12} + X_{15} + X_{16} + X_{17} + X_{18} + X_{19} + X_{20} + X_{21} + X_{22} + X_{23} + X_{24} + X_{25} + X_{26} + X_{27} + X_{28} + X_{29} \quad (5)$$

Sum Parameter of PI1 :

$$N(PI1) = X_{13} + X_{14} + X_{30} \quad (6)$$

Where N(TA), N(TA'), N(PI1) represent the sum of the Sura numbers in table TA, the sum of the Sura numbers in table TA', and the sum of the Sura numbers in table PI1, respectively.

4.2.5 Tables TB, TB' and PI2:

The Suras of TB are distributed across two intervals: TB' [3, 42] and PI2 [43, 62].

Table 6 Quranic structural parameters of the TB, TB' and PI2 tables: the number of suras (n), the number of verses (v), and the ranking values D(TG)

| Table TB | | | Table TB' | | | Table PI2 | | |
|----------|-------|-------|-----------|-------|-------|------------|------------|--------------|
| N(TB) | V(TB) | D(TB) | N(TB) | V(TB) | D(TB) | N(PI2) | V(PI2) | D(PI2) |
| 74 | 56 | 2142 | 80 | 42 | 3101 | 74 | 56 | 2142 |
| 68 | 52 | 2058 | 75 | 40 | 2935 | 68 | 52 | 2058 |
| 69 | 52 | 2107 | 78 | 40 | 3082 | 69 | 52 | 2107 |
| 77 | 50 | 2598 | 83 | 36 | 3473 | 77 | 50 | 2598 |
| 79 | 46 | 2882 | 76 | 31 | 3290 | 79 | 46 | 2882 |
| 70 | 44 | 2528 | 67 | 30 | 2878 | 70 | 44 | 2528 |
| 80 | 42 | 3101 | 89 | 30 | 3956 | 437 | 300 | 14315 |
| 75 | 40 | 2935 | 57 | 29 | 2416 | | | |
| 78 | 40 | 3082 | 81 | 29 | 3592 | | | |
| 83 | 36 | 3473 | 71 | 28 | 3129 | | | |
| 76 | 31 | 3290 | 72 | 28 | 3178 | | | |
| 67 | 30 | 2878 | 88 | 26 | 4013 | | | |
| 89 | 30 | 3956 | 84 | 25 | 3841 | | | |
| 57 | 29 | 2416 | 59 | 24 | 2639 | | | |
| 81 | 29 | 3592 | 58 | 22 | 2633 | | | |
| 71 | 28 | 3129 | 85 | 22 | 3956 | | | |
| 72 | 28 | 3178 | 92 | 21 | 4319 | | | |
| 88 | 26 | 4013 | 73 | 20 | 3407 | | | |
| 84 | 25 | 3841 | 90 | 20 | 4240 | | | |
| 59 | 24 | 2639 | 82 | 19 | 3866 | | | |
| 58 | 22 | 2633 | 87 | 19 | 4111 | | | |
| 85 | 22 | 3956 | 96 | 19 | 4552 | | | |
| 92 | 21 | 4319 | 64 | 18 | 3001 | | | |
| 73 | 20 | 3407 | 86 | 17 | 4095 | | | |
| 90 | 20 | 4240 | 91 | 15 | 4369 | | | |
| 82 | 19 | 3866 | 61 | 14 | 2912 | | | |
| 87 | 19 | 4111 | 60 | 13 | 2875 | | | |
| 96 | 19 | 4552 | 65 | 12 | 3131 | | | |
| 64 | 18 | 3001 | 66 | 12 | 3180 | | | |
| 86 | 17 | 4095 | 62 | 11 | 2994 | | | |
| 91 | 15 | 4369 | 63 | 11 | 3043 | | | |
| 61 | 14 | 2912 | 93 | 11 | 4513 | | | |
| 60 | 13 | 2875 | 100 | 11 | 4856 | | | |

| Table TB | | | Table TB' | | | Table PI2 | | |
|-------------|-------------|---------------|-------------|------------|---------------|-----------|--------|--------|
| N(TB) | V(TB) | D(TB) | N(TB) | V(TB) | D(TB) | N(PI2) | V(PI2) | D(PI2) |
| 65 | 12 | 3131 | 101 | 11 | 4905 | | | |
| 66 | 12 | 3180 | 104 | 9 | 5069 | | | |
| 62 | 11 | 2994 | 94 | 8 | 4586 | | | |
| 63 | 11 | 3043 | 95 | 8 | 4635 | | | |
| 93 | 11 | 4513 | 98 | 8 | 4782 | | | |
| 100 | 11 | 4856 | 99 | 8 | 4831 | | | |
| 101 | 11 | 4905 | 102 | 8 | 4978 | | | |
| 104 | 9 | 5069 | 107 | 7 | 5229 | | | |
| 94 | 8 | 4586 | 109 | 6 | 5332 | | | |
| 95 | 8 | 4635 | 114 | 6 | 5577 | | | |
| 98 | 8 | 4782 | 97 | 5 | 4748 | | | |
| 99 | 8 | 4831 | 105 | 5 | 5140 | | | |
| 102 | 8 | 4978 | 111 | 5 | 5434 | | | |
| 107 | 7 | 5229 | 113 | 5 | 5532 | | | |
| 109 | 6 | 5332 | 106 | 4 | 5192 | | | |
| 114 | 6 | 5577 | 112 | 4 | 5486 | | | |
| 97 | 5 | 4748 | 103 | 3 | 5047 | | | |
| 105 | 5 | 5140 | 108 | 3 | 5292 | | | |
| 111 | 5 | 5434 | 110 | 3 | 5390 | | | |
| 113 | 5 | 5532 | 4522 | 861 | 212761 | | | |
| 106 | 4 | 5192 | | | | | | |
| 112 | 4 | 5486 | | | | | | |
| 103 | 3 | 5047 | | | | | | |
| 108 | 3 | 5292 | | | | | | |
| 110 | 3 | 5390 | | | | | | |
| 4959 | 1161 | 227076 | | | | | | |

Decomposition of Table TB

Table TB, whose Suras span the interval [3, 62], is subdivided into two distinct subsets:

TB': Suras within the interval [3, 42]

PI2: Suras within the interval [43, 62]

Quantitative Characteristics

TB' comprises 52 Suras

PI2 comprises 6 Suras

Total TB: 52 + 6 = 58 Suras (verifying the interval [3, 62])

Property of the Classification Signs

The values of the classification parameter D(TB) are strictly positive for all Suras belonging to: TB', PI2 and TB.

Sum Parameter of TB

$$N(TB) = X_{57} + X_{58} + X_{59} + X_{60} + X_{61} + X_{62} + X_{63} + X_{64} + X_{65} + X_{66} + X_{67} + X_{68} + X_{69} + X_{70} + X_{71} + X_{72} + X_{73} + X_{74} + X_{75} + X_{76} + X_{77} + X_{78} + X_{79} + X_{80} + X_{81} + X_{82} + X_{83} + X_{84} + X_{85} + X_{86} + X_{87} + X_{88} + X_{89} + X_{90} + X_{91} + X_{92} + X_{93} + X_{94} + X_{95} + X_{96} + X_{97} + X_{98} + X_{99} + X_{100} + X_{101} + X_{102} + X_{103} + X_{104} + X_{105} + X_{106} + X_{107} + X_{108} + X_{109} + X_{110} + X_{111} + X_{112} + X_{113} + X_{114} \quad (7)$$

Sum Parameter of TB' :

$$N(TB') = X_{57} + X_{58} + X_{59} + X_{60} + X_{61} + X_{62} + X_{63} + X_{64} + X_{65} + X_{66} + X_{67} + X_{71} + X_{72} + X_{73} + X_{75} + X_{76} + X_{78} + X_{80} + X_{81} + X_{82} + X_{83} + X_{84} + X_{85} + X_{86} + X_{87} + X_{88} + X_{89} + X_{90} + X_{91} + X_{92} + X_{93} + X_{94} + X_{95} + X_{96} + X_{97} + X_{98} + X_{99} + X_{100} + X_{101} + X_{102} + X_{103} + X_{104} + X_{105} + X_{106} + X_{107} + X_{108} + X_{109} + X_{110} + X_{111} + X_{112} + X_{113} + X_{114} \quad (8)$$

Sum Parameter of PI2:

$$N(PI2) = X_{68} + X_{69} + X_{70} + X_{74} + X_{77} + X_{79} \quad (9)$$

4.2.6 Table BZ, BZ₁ et BZ₂:

The Suras of BZ are distributed across two intervals: BZ₁ [64, 286] and BZ₂ [3, 62].

Table 7 Quranic structural parameters of the BZ, BZ₁ and BZ₂ tables: the number of suras (n), the number of verses (v), and the ranking values D(TG)

| Table BZ | | | Table BZ ₁ | | | Table BZ ₂ | | |
|-------------|-------------|--------------|-----------------------|---------------------|---------------------|-----------------------|---------------------|---------------------|
| N(BZ) | V(BZ) | D(BZ) | N(BZ ₁) | V(BZ ₁) | D(BZ ₁) | N(BZ ₂) | V(BZ ₂) | D(BZ ₂) |
| 37 | 182 | -14476 | 37 | 182 | -14476 | 53 | 62 | 768 |
| 56 | 96 | -1720 | 56 | 96 | -1720 | 51 | 60 | 789 |
| 43 | 89 | -1720 | 43 | 89 | -1720 | 44 | 59 | 504 |
| 38 | 88 | -1878 | 38 | 88 | -1878 | 54 | 55 | 1216 |
| 40 | 85 | -1525 | 40 | 85 | -1525 | 34 | 54 | 289 |
| 36 | 83 | -1556 | 36 | 83 | -1556 | 41 | 54 | 632 |
| 55 | 78 | -230 | 55 | 78 | -230 | 42 | 53 | 733 |
| 39 | 75 | -789 | 39 | 75 | -789 | 52 | 49 | 1421 |
| 33 | 73 | -938 | 33 | 73 | -938 | 35 | 45 | 770 |
| 53 | 62 | 768 | 377 | 849 | 24832- | 50 | 45 | 1505 |
| 51 | 60 | 789 | | | | 47 | 38 | 1638 |
| 44 | 59 | 504 | | | | 45 | 37 | 1576 |
| 54 | 55 | 1216 | | | | 46 | 35 | 1694 |
| 34 | 54 | 289 | | | | 31 | 34 | 992 |
| 41 | 54 | 632 | | | | 32 | 30 | 1163 |
| 42 | 53 | 733 | | | | 48 | 29 | 1975 |
| 52 | 49 | 1421 | | | | 49 | 18 | 2266 |
| 35 | 45 | 770 | | | | 1 | 7 | 35 |
| 50 | 45 | 1505 | | | | 755 | 764 | 19966 |
| 47 | 38 | 1638 | | | | | | |
| 45 | 37 | 1576 | | | | | | |
| 46 | 35 | 1694 | | | | | | |
| 31 | 34 | 992 | | | | | | |
| 32 | 30 | 1163 | | | | | | |
| 48 | 29 | 1975 | | | | | | |
| 49 | 18 | 2266 | | | | | | |
| 1 | 7 | 35 | | | | | | |
| 1132 | 1613 | 4866- | | | | | | |

Description of Table BZ:

Table BZ, whose Suras are within the interval [3, 286], is broken down into two sub-tables:

- **BZ₁**: Suras from the interval [64, 286]
- **BZ₂**: Suras from the interval [3, 62]

Table 8 Characteristics of the tables BZ₁ and BZ₂

| Parameter | BZ ₁ | BZ ₂ |
|-------------------------------|-----------------|-----------------|
| Number of Suras | 9 | 18 |
| Sign of classification values | Negative | Positive |

Sum Parameter of Table BZ:

$$N(BZ) = X_1 + X_{31} + X_{32} + X_{33} + X_{34} + X_{35} + X_{36} + X_{37} + X_{38} + X_{39} + X_{40} + X_{41} + X_{42} + X_{43} + X_{44} + X_{45} + X_{46} + X_{47} + X_{48} + X_{49} + X_{50} + X_{51} + X_{52} + X_{53} + X_{54} + X_{55} + X_{56} \tag{10}$$

Sum Parameter of Table BZ₁ :

$$N(BZ1) = X_{33} + X_{36} + X_{37} + X_{38} + X_{39} + X_{40} + X_{43} + X_{55} + X_{56} \tag{11}$$

Sum Parameter of Table BZ₂ :

$$N(BZ2) = X_1 + X_{31} + X_{32} + X_{34} + X_{35} + X_{41} + X_{42} + X_{44} + X_{45} + X_{46} + X_{47} + X_{48} + X_{49} + X_{50} + X_{51} + X_{52} + X_{53} + X_{54} \tag{12}$$

4.2.7 Table BZ₂ Composed of Two Parts IZ₁ and IZ₂

The Suras of BZ₂ are distributed across two intervals: IZ₁ [3, 42] and IZ₂ [43, 62].

Table 9 Quranic structural parameters of the IZ₁ and IZ₂ tables: the number of suras (*n*), the number of verses (*v*), and the ranking values *D*(TG)

| N(IZ ₁) | V(IZ ₁) | D(IZ ₁) | N(IZ ₂) | V(IZ ₂) | D(IZ ₂) |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 47 | 38 | 1638 | 53 | 62 | 768 |
| 45 | 37 | 1576 | 51 | 60 | 789 |
| 46 | 35 | 1694 | 44 | 59 | 504 |
| 31 | 34 | 992 | 54 | 55 | 1216 |
| 32 | 30 | 1163 | 34 | 54 | 289 |
| 48 | 29 | 1975 | 41 | 54 | 632 |
| 49 | 18 | 2266 | 42 | 53 | 733 |
| 1 | 7 | 35 | 52 | 49 | 1421 |
| | | | 35 | 45 | 770 |
| | | | 50 | 45 | 1505 |
| 299 | 228 | 11339 | 456 | 536 | 8627 |

Table BZ₂, whose Suras are within the interval [3, 62], is subdivided into two sub-tables:

IZ₁: Suras within the interval [3, 42] (i.e., 8 Suras).

IZ₂: Suras within the interval [43, 62] (i.e., 10 Suras).

$$N(\mathbf{IZ1}) = X_1 + X_{31} + X_{32} + X_{45} + X_{46} + X_{47} + X_{48} + X_{49} \quad (13)$$

$$N(\mathbf{IZ2}) = X_{34} + X_{35} + X_{41} + X_{42} + X_{44} + X_{50} + X_{51} + X_{52} + X_{53} + X_{54} \quad (14)$$

4.2.8 Table PI

Table PI represents the common zone shared by the three main tables. It consists of the three subgroups PI1, PI2, and IZ₂, which together comprise a total of 19 suras, all located within the interval [43, 62].

Table 10 Quranic structural parameters of the PI1, PI2 and IZ₂ tables: the number of suras (*n*), the number of verses (*v*), and the ranking values *D*(TG)

| Table N(PI1) | | | Table N(PI2) | | | Table N(IZ ₂) | | |
|--------------|------------|--------------|--------------|------------|--------------|---------------------------|---------------------|---------------------|
| N(PI1) | V(PI1) | D(PI1) | N(PI2) | V(PI2) | D(PI2) | N(IZ ₂) | V(IZ ₂) | D(IZ ₂) |
| 13 | 43 | -223 | 68 | 52 | 2058 | 34 | 54 | 289 |
| 14 | 52 | -588 | 69 | 52 | 2107 | 35 | 45 | 770 |
| 30 | 60 | -240 | 70 | 44 | 2528 | 41 | 54 | 632 |
| | | | 74 | 56 | 2142 | 42 | 53 | 733 |
| | | | 77 | 50 | 2598 | 44 | 59 | 504 |
| | | | 79 | 46 | 2882 | 50 | 45 | 1505 |
| | | | | | | 51 | 60 | 789 |
| | | | | | | 52 | 49 | 1421 |
| | | | | | | 53 | 62 | 768 |
| | | | | | | 54 | 55 | 1216 |
| 57 | 155 | -1051 | 437 | 300 | 14315 | 456 | 536 | 8627 |

The sum parameters of the tables above are given by equations Eq.6, Eq.9, and Eq.14, respectively.

4.2.9 Chronological Classification

Regarding the chronological order, the following table highlights the fundamental organizational differences between the two sets:

Table 11 Ranking values $D(TG)$ according to the chronological ordering

| N | V | D | N | V | D | N | V | D | N | V | D |
|----|----|-------|----|-----|--------|----|-----|-------|-------------|-------------|----------|
| 1 | 19 | -103 | 31 | 40 | 779 | 57 | 34 | 2266 | 86 | 36 | 3620 |
| 2 | 52 | -1176 | 32 | 9 | 1541 | 58 | 54 | 1465 | 87 | 286 | -36206 |
| 3 | 20 | -23 | 33 | 50 | 442 | 59 | 75 | 191 | 88 | 75 | 1612 |
| 4 | 56 | -1288 | 34 | 45 | 721 | 60 | 85 | -545 | 89 | 200 | -15339 |
| 5 | 7 | 231 | 35 | 20 | 1545 | 61 | 54 | 1612 | 90 | 73 | 1855 |
| 6 | 5 | 289 | 36 | 17 | 1645 | 62 | 53 | 1713 | 91 | 13 | 4394 |
| 7 | 29 | -34 | 37 | 55 | 383 | 63 | 89 | -740 | 92 | 176 | -10716 |
| 8 | 19 | 240 | 38 | 88 | -1878 | 64 | 59 | 1484 | 93 | 8 | 4537 |
| 9 | 21 | 252 | 39 | 206 | -18998 | 65 | 37 | 2556 | 94 | 29 | 4229 |
| 10 | 30 | 85 | 40 | 28 | 1610 | 66 | 35 | 2674 | 95 | 38 | 3990 |
| 11 | 11 | 495 | 41 | 83 | -1311 | 67 | 60 | 1573 | 96 | 43 | 3844 |
| 12 | 8 | 568 | 42 | 77 | -791 | 68 | 26 | 3033 | 97 | 78 | 1828 |
| 13 | 3 | 637 | 43 | 45 | 1162 | 69 | 110 | -2504 | 98 | 31 | 4368 |
| 14 | 11 | 642 | 44 | 98 | -2499 | 70 | 128 | -4570 | 99 | 12 | 4797 |
| 15 | 3 | 735 | 45 | 135 | -6705 | 71 | 28 | 3129 | 100 | 8 | 4880 |
| 16 | 8 | 764 | 46 | 96 | -2210 | 72 | 52 | 2254 | 101 | 24 | 4697 |
| 17 | 7 | 819 | 47 | 227 | -23121 | 73 | 112 | -2527 | 102 | 64 | 3046 |
| 18 | 6 | 873 | 48 | 93 | -1833 | 74 | 118 | -3159 | 103 | 78 | 2122 |
| 19 | 5 | 926 | 49 | 88 | -1339 | 75 | 30 | 3270 | 104 | 11 | 5052 |
| 20 | 5 | 975 | 50 | 111 | -3544 | 76 | 49 | 2597 | 105 | 22 | 4936 |
| 21 | 6 | 1020 | 51 | 109 | -3278 | 77 | 30 | 3368 | 106 | 18 | 5059 |
| 22 | 4 | 1076 | 52 | 123 | -4832 | 78 | 52 | 2548 | 107 | 12 | 5189 |
| 23 | 62 | -702 | 53 | 111 | -3397 | 79 | 44 | 2969 | 108 | 18 | 5157 |
| 24 | 42 | 357 | 54 | 99 | -2106 | 80 | 40 | 3180 | 109 | 14 | 5264 |
| 25 | 5 | 1220 | 55 | 165 | -10670 | 81 | 46 | 2980 | 110 | 11 | 5346 |
| 26 | 15 | 1184 | 56 | 182 | -13545 | 82 | 19 | 3866 | 111 | 29 | 5062 |
| 27 | 22 | 1114 | | | | 83 | 25 | 3792 | 112 | 120 | -1532 |
| 28 | 8 | 1352 | | | | 84 | 60 | 2406 | 113 | 129 | -2590 |
| 29 | 4 | 1419 | | | | 85 | 69 | 1888 | 114 | 3 | 5586 |
| 30 | 11 | 1426 | | | | | | | 6555 | 6236 | 0 |

Unlike Table 1 and its derivatives, which follow an organization based on specific criteria, Table 11, classified according to the chronological order and the sign of the DTG) relation, does not seem to aim for a classification of the Suras per se, but could serve other purposes. We believe that the most coherent structure remains the one observed in the compilation order.

It should also be emphasized that any Sura numbering system different from that of the current Quran leads to a classification, based on the sign of $D(TG)$, that is arbitrary and devoid of any coherent logic.

4.3 Distribution Patterns of Sura Groups

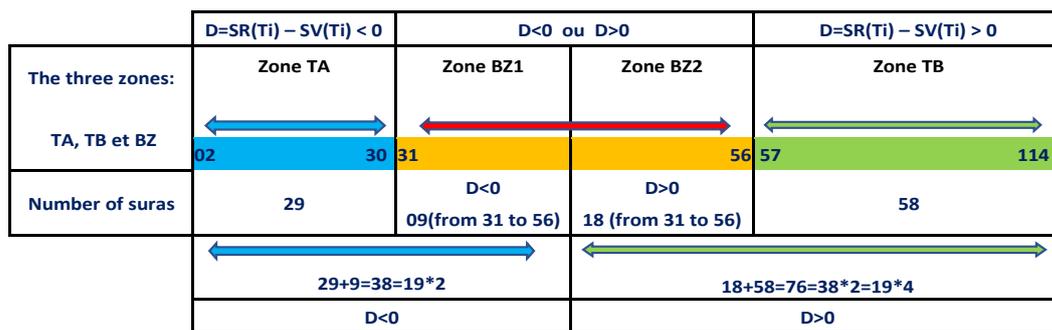


Fig. 1 Distribution models of surah groups according to the classification relationship

| Number of verses | 03 | 42 | 43 | 62 | 64 | 286 |
|------------------|---------------------------------|----|------|--------------|---------------------------------|---------------------------------|
| SIGN OF D(Ti) | D(Ti) > 0 | | | D>0 ou D<0 | | D(Ti) < 0 |
| TA | | | 03 S | | 26 Suras numbered from 02 to 30 | |
| BZ | 18 Suras numbered from 31 to 56 | | | 10 S | | 09 Suras numbered from 31 to 56 |
| TB | 52 Suras from 57 to 114 | | | 06 S | | |
| Number of Suras | 18+58=76=38*2=19*4 | | | 29+9=38=19*2 | | |

Fig. 2 Distribution models of surah groups according to the number of verses and the sign of $D(Ti)$

5. Characteristics of the TA, TB, BZ Groups and the Secondary Tables

Each of these groups, once studied and defined, exhibits its own characteristics, identified using a research directive inspired by the methodologies employed in a previous study on the authenticity of the Noble Quran [3]. This approach allows for determining the sum of the sura numbers within each group and for formulating corresponding specific equations.

As outlined in section 4.2.4 (Operational Necessity), we will now examine the pre-existing properties within these groups. These properties will be used to determine the sums of the elements in the first columns, following a methodology analogous to that used to establish the parameters for groups G1, G2, G3, and G4 [3].

This same approach is extended to all groups in the General Table (GT), whose parameters are, initially, considered unknown.

5.1 Properties of the TA, TA' and PI1 Groups

By analogy with the general table TG, we have established that the TA, TA', and PI1 groups each exhibit a structural property similar to Equation (1) of the main model. These relationships can be systematically determined using dedicated algorithms.

GROUP TA:

The elements of TA satisfy the relation: $D(TA) = SR2(TA) - SV(TA)$

They are governed by the structural equation: $SR2(TA) = 28 \times N(TA) + 69 \times V(TA)$ (Eq. 15)

GROUP TA' :

The elements of TA' satisfy the relation : $D(TA') = SR3(TA') - SV(TA')$

They are governed by the structural equation: $SR3(TA') = 243 \times N(TA') + 45 \times V(TA')$ (Eq. 16)

GROUP PI1:

The elements of PI1 satisfy the relation: $D(PI1) = SR4(PI1) - SV(PI1)$

They are governed by the structural equation: $SR4(PI1) = 62 \times N(PI1) + 4 \times V(PI1)$ (Eq. 17)

Parameter Summary:

The parameter for TA is defined by Equation (4) and its value is determined by Equation (15).

The parameter for TA' is defined by Equation (5) and can be calculated via Equation (16).

The parameter for PI1 is defined by Equation (6) and can be calculated via Equation (17).

5.2 Properties of the BZ, BZ₁, BZ₂, IZ₁, IZ₂ and PI Groups

5.2.1 BZ, BZ₁ and BZ₂ Groups

The distribution of suras within group BZ based on their verse count determines the configuration of subgroups BZ₁ and BZ₂. This organization mirrors the distribution of BZ performed according to the sign of $D(Ti)$, leading to the following observations:

- **Group BZ₁:** Composed of 9 suras with the highest verse counts compared to those in BZ₂, and characterized by a negative $D(Ti)$ sign.
- **Group BZ₂:** Composed of 18 suras with the lowest verse counts compared to those in BZ₁, and characterized by a positive $D(Ti)$ sign.

Role of Sura No. 1 (S_1):

Sura Al-Fātihah (S_1), whose numerical position is a fundamental datum, occupies a unique place within the numerical structure of the Qur'anic text. It paves the way for a remarkable structural organization of the Qur'an.

A Singular and Functional Position

With a positive $D(Ta)$ value of 35, it appears in table TA, which is composed of consecutive negative suras. However, according to the established principles, it should not be part of this table and must be separated to integrate another set, as determined by the principle of proportionality and Equation 1.

Consequently, this sura cannot be integrated into either table TA or table TB, as these sets are strictly defined and delimited in their internal composition. Its natural position is therefore within group BZ, which brings together suras exhibiting both positive and negative ranking values simultaneously.

This displacement, necessitated by the two aforementioned conditions, reveals the following functional characteristics:

Sura 1 does not function as a simple ordinal indicator but as a **global balancing factor**. Its existence is essential to the coherence of the Qur'anic structure, as it ensures equilibrium between the numerical parameters of the different groups. It thus plays a determining role in the proportional rebalancing of parameters between tables TA, TB, BZ, BZ_1 , BZ_2 , IZ, and IZ_2 .

Note on Parameter States

All the values cited in relation to these tables represent the state *after* the displacement of Al-Fātihah. When referring to parameters from the initial state, this will be explicitly indicated using a conforming annotation (for example, IZ'_1 for the initial IZ_1 group).

Observed Structural Balances:**Balance in the Number of Suras:**

$$S(TB) = 2 \times S(TA) \text{ Table 3}$$

Where $S(TB)$ and $S(TA)$ denote the number of suras contained in groups TB and TA respectively, *after* Sura No. 1 has been moved from TA to BZ_2 .

$$S(BZ_2) = 2 \times S(BZ_1) \text{ Table 7}$$

Where $S(BZ_2)$ and $S(BZ_1)$ denote the number of suras contained in groups BZ_2 and BZ_1 respectively, with Sura No. 1 included in BZ_2 .

Balance in the Sums of Sura Numbers:

$$N(BZ_2) = 2 \times N(BZ_1) + N(S_1) \text{ Table 7}$$

Where $N(G)$ represents the sum of the sura numbers in group G, and $N(S_1)$ is the sura number of S_1 .

Balance Between the Sums of Sura Numbers and Verses:

$$N(IZ_2) = 2 \times V(IZ_1) \text{ Table 9}$$

$$\text{With } V(IZ_1) = V(IZ'_1) + V(S_1)$$

Where $N(IZ_2)$ denotes the sum of the sura numbers in group IZ_2 , $V(IZ_1)$ denotes the sum of the verses in group IZ_1 (*after* displacement), $V(IZ'_1)$ denotes the sum of the verses in group IZ_1 *before* the displacement of S_1 , and $V(S_1)$ is the number of verses in S_1 .

Modes of Influence:

The influence of Sura 1 is exercised through two complementary modes:

1. Through its presence as a countable sura $S(G)$ in the TA, TB, and BZ systems.
2. Through its verse count $V(S_1)$ in the IZ system.

Thus, Sura 1 acts as a pivotal balancing element between the different groups, ensuring the internal coherence of the structure and confirming the existence of an intentional mathematical organization within the structure of the Qur'an. These relationships finally allow for the statement of a set of general rules of correspondence between the BZ_1 , BZ_2 , and IZ_1 sets, confirming the existence of an intentional mathematical organization.

The ratio between the number of suras in BZ_2 including Sura No. 1 and the number of suras in BZ_1 is equal to the ratio between the sum of the sura numbers of BZ_2 minus the number of sura 1 and the sum of the sura numbers of BZ_1 .

$$\frac{N(BZ_2) - 1}{N(BZ_1)} = \frac{S(BZ_2)}{S(BZ_1)} = \frac{18}{9}$$

Now, knowing: $N(BZ) = N(BZ_1) + N(BZ_2) \Rightarrow N(BZ_1) = N(BZ) - N(BZ_2) \Rightarrow$

$$N(BZ_1) = N(BZ) - 2N(BZ_1) - 1 \Rightarrow$$

$$N(BZ_1) = \frac{N(BZ) - 1}{3} \quad (18)$$

Properties of the BZ₂, IZ₁ and IZ₂ Tables:

The BZ table consists of sura 1 plus 26 other suras whose numbers are consecutive, thus forming a set of 27 suras. This set is broken down into three distinct subgroups: IZ₁, BZ₁, and IZ₂, comprising 8, 9, and 10 suras respectively. Sura 1 (S₁), due to its role in structural balancing, is integrated into the IZ₁ group.

The number of suras in BZ, as well as that in the BZ₁ table, can be determined by applying equation 18.

Characteristics of the BZ table:

The BZ group brings together the suras numbered from 31 to 56, to which sura 1 is added.

The sum of the sura numbers of BZ is therefore equal to the sum of the integers from 31 to 56, increased by the number of sura 1: $N(BZ) = (\text{sum from 31 to 56}) + 1$

The sum of consecutive integers from m to n is given by the classic formula:

$$S = \frac{(n - m + 1) * (m + n)}{2}$$

- $N(BZ) = \frac{(56-31+1)*(31+56)}{2} + 1 = 1132$
- Applying equation 18, we get: $N(BZ_1) = (1132 - 1)/3 = 377$,
- We deduce: $N(BZ_2) = N(BZ) - N(BZ_1) = (1132 - 377) = 755$

Calculation of the IZ₁ and IZ₂ sums:

According to the balance relationship established previously:

$$N(IZ_2) = 2(V(IZ_1) + V(S_1)), V(IZ_1) = 221 \text{ et } V(S_1) = 7$$

- $N(IZ_2) = 2 * (221 + 7) = 456$

Knowing also that: $N(BZ_2) = N(IZ_1) + N(IZ_2)$, we obtain:

- $N(IZ_1) = N(BZ_2) - N(IZ_2) = 755 - 456 = 299$

The sum parameter of BZ is defined by Equation (10)

The sum parameter of BZ₁ is defined by Equation (11)

The sum parameter of BZ₂ is defined by Equation (12)

5.2.2 Property of the PI Tables

By analogy with the TG, TA, and TA' tables, we have observed that the PI tables exhibit a similar structural property. A relationship links the sum of the sura numbers, the number of verses, and the sum of the verse numbers:

The elements of PI satisfy the relation: $D(PI) = SR5(PI) - SV(PI)$

And are linked by the relation:

$$SR5(PI) = 27N(PI) + V(PI) \quad (22)$$

5.2.3 Calculation of the Parameters of the Tables

TA, TA', PI1, BZ, BZ₁, BZ₂, IZ₁, IZ₂, TB, TB', PI2, PI.

Once these tables have been established and their characteristics defined, their parameters are treated as input data. The main objective of this step is to determine the surah numbers, which are assumed to be initially unknown. To achieve this, the sums of the surah numbers for each table are computed by applying the mathematical relations specific to each of them. The expressions giving the sum of the verses and the sum of the verse numbers are respectively: $V = \sum_i vi$ et $SV = \sum_i vi (vi + 1)/2$.

- **TA, TA' and PI1.**

Table 12 Quranic structural parameters of the TA, TA', and PI1 tables, according to the respective ranking values D(TA), D(TA'), and D(PI1)

| TA table according to: $SR2(TA) = 28N(TA) + 69V(TA)$ | | | | Table TA' according to: $SR3(TA') = 243N(TA') + 45V(TA')$ | | | | Table PI1 according to: $SR4(PI1) = 62N(PI1) + 4V(PI1)$ | | | |
|---|-------------|---------------|----------|--|-------------|---------------|----------|--|------------|-------------|----------|
| N(TA) | V(TA) | SV(TA) | D(TA) | N(TA') | V(TA') | SV(TA) | D(TA') | N(PI1) | V(PI1) | SV(TA) | D(PI1) |
| X2 | 286 | 41041 | ... | X2 | 286 | 41041 | ... | X13 | 43 | 946 | ... |
| X3 | 200 | 20100 | ... | X3 | 200 | 20100 | ... | X14 | 52 | 1378 | ... |
| X4 | 176 | 15576 | ... | X4 | 176 | 15576 | ... | X30 | 60 | 1830 | ... |
| X5 | 120 | 7260 | ... | X5 | 120 | 7260 | ... | 57 | 155 | 4154 | 0 |
| X6 | 165 | 13695 | ... | X6 | 165 | 13695 | ... | | | | |
| X7 | 206 | 21321 | ... | X7 | 206 | 21321 | ... | | | | |
| X8 | 75 | 2850 | ... | X8 | 75 | 2850 | ... | | | | |
| X9 | 129 | 8385 | ... | X9 | 129 | 8385 | ... | | | | |
| X10 | 109 | 5995 | ... | X10 | 109 | 5995 | ... | | | | |
| X11 | 123 | 7626 | ... | X11 | 123 | 7626 | ... | | | | |
| X12 | 111 | 6216 | ... | X12 | 111 | 6216 | ... | | | | |
| X13 | 43 | 946 | ... | X15 | 99 | 4950 | ... | | | | |
| X14 | 52 | 1378 | ... | X16 | 128 | 8256 | ... | | | | |
| X15 | 99 | 4950 | ... | X17 | 111 | 6216 | ... | | | | |
| X16 | 128 | 8256 | ... | X18 | 110 | 6105 | ... | | | | |
| X17 | 111 | 6216 | ... | X19 | 98 | 4851 | ... | | | | |
| X18 | 110 | 6105 | ... | X20 | 135 | 9180 | ... | | | | |
| X19 | 98 | 4851 | ... | X21 | 112 | 6328 | ... | | | | |
| X20 | 135 | 9180 | ... | X22 | 78 | 3081 | ... | | | | |
| X21 | 112 | 6328 | ... | X23 | 118 | 7021 | ... | | | | |
| X22 | 78 | 3081 | ... | X24 | 64 | 2080 | ... | | | | |
| X23 | 118 | 7021 | ... | X25 | 77 | 3003 | ... | | | | |
| X24 | 64 | 2080 | ... | X26 | 227 | 25878 | ... | | | | |
| X25 | 77 | 3003 | ... | X27 | 93 | 4371 | ... | | | | |
| X26 | 227 | 25878 | ... | X28 | 88 | 3916 | ... | | | | |
| X27 | 93 | 4371 | ... | X29 | 69 | 2415 | ... | | | | |
| X28 | 88 | 3916 | ... | 407 | 3307 | 247716 | 0 | | | | |
| X29 | 69 | 2415 | ... | | | | | | | | |
| X30 | 60 | 1830 | ... | | | | | | | | |
| 464 | 3462 | 251870 | 0 | | | | | | | | |

Tables TB, TB', and PI2

The parameters for these tables are determined by Equations Eq.7, Eq.8, Eq.9, and Table 7.

Tables BZ, BZ₁, BZ₂, IZ₁, and IZ₂

The numerical values for these tables are determined by a specific system of mathematical equations: Eq.10, Eq.11, Eq.12, Eq.13, Eq.14, and Tables 6 and 7.

Characteristics of Table TA (Table 12)

Sum of verses: $V(TA) = 3462$

Sum of verse numbers: $SV(TA) = 251870$

Sum of chapter numbers: $N(TA) = (SV(TA) - 69 \times V(TA)) / 28$

$N(TA) = (251\ 870 - (69 \times 3\ 462)) / 28 = 464$

Value of SR2 (Equation 15):

$SR2(TA) = (28 \times N(TA)) + (69 \times V(TA))$

$SR2(TA) = (28 \times 464) + (69 \times 3\ 462) = 251\ 870$

Value of D(TA): $D(TA) = SR2(TA) - SV(TA) = 251\ 870 - 251\ 870 = 0$

Characteristics of Table TA' (Table 12)

Sum of verses: $V(TA') = 3307$

Sum of verse numbers: $SV(TA') = 247716$

Sum of chapter numbers:

$N(TA') = (SV(TA') - 45 \times V(TA')) / 243 = [247716 - (45 \times 3307)] / 243 = 407$

Value of SR3 (Equation 16):

$SR3(TA') = 243N(TA') + 45V(TA') = (243 \times 407) + (45 \times 3307) = 247716$

Value of D(TA'): $D(TA') = SR3(TA') - SV(TA') = 0$

Characteristics of Table PI1 (Table 12)

Sum of verses for PI1: $V(PI1) = 43 + 52 + 60 = 155$

Sum of verse numbers for PI1: $SV(PI1) = 4154$

Sum of the chapter numbers for the three chapters in PI1:

$N(PI1) = (SV(PI1) - 4 \times V(PI1)) / 62 = (4154 - 4 \times 155) / 62 = 57$

Value of SR4 (Equation 17):

$SR4(PI1) = 62 \times N(PI1) + 4 \times V(PI1) = 62 \times 57 + 4 \times 155 = 4154$

Value of D(PI1): $D(PI1) = SR4(PI1) - SV(PI1) = 4154 - 4154 = 0$

Characteristics of Table BZ**Calculation of the sum of chapter numbers for the three BZ tables.**

BZ consists of 27 chapters, numbered from 31 to 56, plus chapter number 1. The sum of the chapter numbers for

BZ is therefore equal to the sum of integers from 31 to 56, increased by the number of chapter 1:

$N(BZ) = (\text{sum from 31 to 56}) + 1$

The sum of integers from m to n is given by: $S = ((n - m + 1) * (m + n)) / 2$

$N(BZ) = ((56 - 31 + 1) * (31 + 56)) / 2 + 1 = 1132$

Characteristics of Table BZ₁ (Details)

By applying Equation 18, we have: $N(BZ_1) = (1132 - 1) / 3 = 377$

Given that the number of verses in each sura belonging to group BZ₁ falls within the interval [64, 286], the total sum of the verses of the nine suras constituting this group presents a distinct and isolable value, which can therefore be determined in a systematic and unambiguous manner.

$V(BZ_1) = 73 + 83 + 88 + 75 + 78 + 85 + 89 + 96 + 182 = 849$

The sum of the verse numbers for BZ₁ is: $SV(BZ_1) = 45003$

The value of SR(BZ₁) is: $SR(BZ_1) = 49 \times N(BZ_1) + 2 \times V(BZ_1) = 49 \times 377 + 2 \times 849 = 20171$

The ranking value of BZ₁: $D(BZ_1) = SR1(BZ_1) - SV(BZ_1) = 20171 - 45003 = -24832$

Characteristics of Table BZ₂ (Details)

The sum of the chapter numbers for BZ₂ is given by Equation 18:

$N(BZ_2) = 1 + 2 \times N(BZ) = 1 + 2 \times 377 = 755$

The number of verses is: $V(BZ_2) = V(BZ) - V(BZ_1) = 1613 - 849 = 764$

The sum of the verse numbers for BZ₂ is: $SV(BZ_2) = 18557$

The value of SR(BZ₂) is: $SR(BZ_2) = 49 \times N(BZ_2) + 2 \times V(BZ_2) = 49 \times 755 + 2 \times 764 = 38523$

The ranking value of BZ₂: $D(BZ_2) = SR1(BZ_2) - SV(BZ_2) = 38523 - 18557 = 19966$

Characteristics of Table PI and its parts PI1, IZ₂, and PI2

Sum of verses and verse numbers for PI1: $V(PI1) = 155 \Rightarrow SV(PI1) = 4154$

Sum of verses and verse numbers for PI2: $V(PI2) = 300 \Rightarrow SV(PI2) = 7698$

Sum of verses and verse numbers for IZ₂: $V(IZ2) = 536 \Rightarrow SV(IZ2) = 14789$

Sum of verses for PI: $V(PI) = V(PI1) + V(PI2) + V(IZ2) = 155 + 300 + 536 = 991$

Sum of verse numbers for PI:

$SV(PI) = SV(PI1) + SV(PI2) + SV(IZ2) = 4154 + 7698 + 14789 = 26641$

Sum of chapter numbers for PI: $N(PI) = SV(PI) - V(PI) / 27 = 26641 - 99127 = 950$

The value of SR5 (Equation 22) is:

$SR5(PI) = 27N(PI) + V(PI) = 27 * 950 + 991 = 26641$

The value of D(PI): $SD(PI) = SR5(PI) - SV(PI) = 26641 - 26641 = 0$

Characteristics of Table PI2

The sum of the chapter numbers for PI1 is: $N(PI1) = 57$

The sum of the chapter numbers for IZ₂ is: $N(IZ2) = 456$

We have the relation: $N(PI) = N(PI1) + N(PI2) + N(IZ2) \Rightarrow N(PI2) = N(PI) - N(PI1) - N(IZ2)$

The sum of the chapter numbers for PI2 is therefore: $N(PI2) = 950 - 57 - 456 = 437$

The value of SR1 (Equation 1) is:

$$SR1(PI2) = 49 \times N(PI2) + 2 \times V(PI2) = 49 \times 437 + 2 \times 300 = 21413 + 600 = 22013$$

$$\text{The value of } D(PI2): D(PI2) = SR1(PI2) - SV(PI2) = 22013 - 7698 = 14313$$

Characteristics of Tables TB and TB'

The sum of verses for TB is: $V(TB) = 1161$

The sum of verse numbers for TB is: $SV(TB) = 18237$

The sum of the chapter numbers for TB is equal to the sum of integers from 57 to 114:

$$N(TB) = ((114 - 57 + 1) \times (114 + 57)) / 2 = (58 \times 171) / 2 = 4959$$

$$\text{Or: } N(TB) = N(TG) - N(TA) - N(BZ) = 6555 - 464 - 1132 = 4959$$

The value of SR1 (Equation 1) is:

$$SR1(TB) = 49 \times N(TB) + 2 \times V(TB) = 49 \times 4959 + 2 \times 1161 = 242991 + 2322 = 245313$$

$$\text{The value of } D(TB): D(TB) = SR1(TB) - SV(TB) = 245313 - 18237 = 227076$$

For Table TB':

The sum of verses for TB' is: $V(TB') = 861$

The sum of verse numbers for TB' is: $SV(TB') = 10539$

The sum of chapter numbers for TB': $N(TB') = N(TB) - N(PI2) = 4959 - 437 = 4522$

$$\text{Value of SR1 (Equation 1): } SR1(TB') = 49 \times N(TB') + 2 \times V(TB') = 49 \times 4522 + 2 \times 861 = 223300$$

$$\text{Value of } D(TB'): D(TB') = SR1(TB') - SV(TB') = 223300 - 10539 = 212761$$

6. Discussion

6.1 Proof of Intentionality: Beyond Coincidence

The structure revealed by this study exhibits a degree of interdependent complexity that radically exceeds the limits of plausibly random occurrence. Several converging elements establish the signature of an intelligent design:

1. **The Interlocking Nature of the Evidence:** The system does not rely on an isolated numerical coincidence but on a network of equations and partitions that fit together perfectly. The fundamental equation $49N + 2V = SV$ (which has a unique solution) validates the whole. Then, the classification by the sign of $D(a)$ reveals groups (TA, TB, BZ) and their subgroups that themselves obey strict proportional balances: $S(TB) = 2 \times S(TA)$, $S(TB') = 2 \times S(TA')$, $S(PI2) = 2 \times S(PI1)$, $S(BZ_2) = 2 \times S(BZ_1)$. Finally, the advanced subdivision of BZ_2 reveals an even subtler relation $N(IZ_2) = 2 \times V(IZ_1)$. This cascade of verifiable relationships, where each level validates the previous one, is the antithesis of a random phenomenon.
2. **The Functional Role of Key Elements:** The analysis does not merely note numbers; it assigns specific functional roles to precise suras, whose names and positions resonate with their numerical function.
 - o **Al-Fātiḥah (Sura 1)** acts as a regulatory pivot. Its displacement from its natural position (in TA) to BZ_2 is the action that activates the proportional balances. Its status as the "Opening" of the Book thus finds an echo in its role of "opening" the mathematical structure.
 - o **Fussilat (Sura 41)** serves as a validation key. Its values 41 and 54 are the unique solution that validates the global balance between the groups. Its name, "Expounded in Detail" (Fussilat), aligns with its function as explicit proof.[3]
3. **The Statistical Argument:** The probability that a text of 114 chapters, composed over 23 years in the 7th century context, could subsequently develop a mathematical structure as complex, coherent, and interdependent as observed is statistically negligible. The proof lies in the fact that displacing just one element - Sura Al-Fātiḥah - is sufficient to simultaneously collapse multiple fundamental numerical equilibria.

This structure, though concealed for centuries, proves to be intrinsic to the very architecture of the Qur'an, governing it in an immutable manner. An organized complexity of such magnitude cannot be attributed to chance, nor to any human construction conceivable within the historical context of its revelation.

6.2 Theological and Academic Implications

1. **Proof of Authenticity and Preservation:** This mathematical system, with its intrinsic fragility (since it depends on the exact number of verses and the specific composition of the sura groups), cannot be the product of later human compilation or alterations. It demonstrates that the canonical order of the suras and the verse count were fixed and preserved from the origin, constituting tangible proof of the Islamic assertion of the divine preservation of the Quran.

2. **A Response to Academic Criticisms:** The perception, inherited from authors like John Wansbrough [1], of the Quranic order as the product of a late and fragmentary compilation is radically invalidated by this demonstration. The Quran possesses an organization, but it is not linear or chronological; it is structural and mathematical. It belongs to a level of complexity that escapes conventional literary or historical analysis and requires a systemic study.
3. **The Convergence of Science and Revelation:** This discovery places the Quran in a unique position. It is not merely a spiritual or literary text, but it also contains marvels of mathematical signs of great sophistication. It updates the notion of "miracle" (*i'jāz*) by grounding it on a verifiable and falsifiable basis, thus meeting the rationality requirements of the modern era.

6.3 Limitations and Future Research Directions

This study does not represent an end point, but rather establishes the foundation for a new paradigm in Quranic structural research. The methodology we have demonstrated opens the door to a systematic scientific investigation, where future hypotheses can be subjected to mathematical verification rather than remaining in the realm of subjective interpretation.

The most promising research directions now include:

- The exhaustive identification of the complete set of structural partitions and their characteristic governing equations.
- The analysis of emergent properties arising from the interactions between the different levels of this complex organization.

Ultimately, this work provides a robust methodological framework for a renewed and rigorous exploration of the numerical architecture of the Noble Qur'an.

7. Conclusion

This research decisively demonstrates that the ordering of the Quranic suras is governed by an intrinsic mathematical logic, refuting the hypothesis of a random or purely thematic compilation. The discovery of the partition system (TA, TB, BZ) and their characteristic equilibrium equations reveals a coherent numerical architecture that operates as an integrated verification mechanism.

The convergence of evidence—the uniqueness of Equation 1, the fixed proportions between groups, and the functional assignment of Sura Al-Fātiḥah—leaves no room for conventional explanations. This organized complexity not only validates the authenticity of the Quran but attests to a design that transcends human methods of compilation and editing.

Consequently, this intrinsic and preserved mathematical structure constitutes tangible proof of the Quran's authenticity and its arrangement. It responds to criticisms about its alleged disorganization by revealing a profound mathematical order, inaccessible without the appropriate analytical tools.

The additional partitions and equations that will be the subject of the second part of this research promise to reveal even deeper levels of complexity. Even now, it is evident that the architecture of the Quran, of which we perceive only a minute part, surpasses all human capacity for imagination and understanding, attesting to its transcendent origin.

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Conflict of Interest

The author declares that there is no conflict of interests regarding the publication of the paper.

Author Contribution

The author is responsible for the study conception, research design, data collection, data analysis, result interpretation and manuscript drafting.

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