# THE MUSICAL REALIZATION OF BIBLICAL CANTILLATION SYMBOLS ( $TE^{C}AM\hat{I}M$ ) IN THE JEWISH YEMENITE TRADITION<sup>1</sup>

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#### INTRODUCTION

This study<sup>2</sup> concentrates on the Pentateuch, recited by the Yemenites in three different social and religious contexts: (a) the various synagogal services, of which the biblical recitation is a central liturgical part; (b) the traditional study-sessions of biblical sections; and (c) the *heder*, where the recitation of biblical texts is the basic educational instrument. The Yemenites declare that although they have a repertory of six different tunes according to which these public recitations are performed, the tunes are unified in that their structure depends on the  $te^camim$ , the cantillation symbols<sup>3</sup>. The aim of this paper is to present the repertory of the musical renditions of the Pentateuch and to investigate the relationships between the  $te^camim$  and their musical realization within these three social contexts.

- A.Z. Idelsohn was the first to attempt systematization of the musical traditions of Yemenite scriptural recitation, based on field recordings (Idelsohn 1913). His approach to the investigation of music as an oral tradition was based on the view that music is, first and foremost, an
- 1. This study was carried out with the support of the Research Authority of Bar-Ilan University and the Jewish Music Research Centre in collaboration with the National Sound Archives of the Hebrew University.
- 2. The study is based on fieldwork done during 1971-78, observing various rituals and interviewing representative individuals from seven Yemenite congregations in Israel, who all claim that they have preserved the same tradition of the region of  $San^ca$ , capital of Yemen. Hebrew textunderlay (below the music) and Hebrew names of  $te^camim$  are given in phonetic transcription, according to S. Morag's system, "Pronunciation of Hebrew", Enclyclopaedia Judaica (1971), XIII, 1120-1143. Other Hebrew terms are transliterated.
- 3. The  $te^{c}amim$  are symbols placed above or below the biblical text, so that each word usually has one symbol. The system is uniform for most books of the Bible (21 of them), with the exception of Psalms, Proverbs, and most of Job, where there is a different set of symbols (parts of Job with the same set as the 21 books are chapters 1 and 2, chapter 3 verse 1, and chapter 42 verses 7 to the end). The difference between these two sets is expressed in the traditional recitation of the texts. It is generally believed that a recitation of sections from the 21 books is a musical performance based on the  $te^{c}amim$ , whereas recitations of sections from the other three books are considered a musical performance based on the general syntactical structure of the verses rather than on their  $te^{c}amim$ . For more details on this matter in Yemenite tradition, see Joseph Qafiḥ 1951: 263-4; 1961; 1962: 371-6, and Shelomo Morag 1963: 212-4.

acoustic phenomenon. This accounts for his efforts to measure the pitches in order (a) to arrive at some organization of a scale-system and (b) to reach a final picture of a few basic motives upon which the ritual music is composed through a process of imitation and development<sup>4</sup>. His fieldwork consisted of recording two respondents who chanted several verses from the Pentateuch, the music of which included two tunes: the 'tôrah tune' and the 'šîrah tune'. As will be shown further on, Idelsohn did not accede to a large amount of information because he did not examine the music in its actual performance in the synagogue. Moreover, his transcriptions are his intuitive "summation" of only some of the many extant variants. Finally, he concludes by presenting fixed motives and their "tonal" interrelationships. But these conclusions do not exist as such in the Yemenite conception and therefore play no role in the actual "music making" process among the Yemenites.

In order to understand this process, an attempt has been made here to examine the biblical tunes of the Pentateuch as they are performed in their natural contexts, and then to compare the results with the same repertoire as recorded out-of-context in interviews with individual respondents. Based on these examinations, I have tried not only to deepen our knowledge of the Yemenite conception regarding the tunes and their structures, but also to understand the function of every musical feature, and thus to make possible an in-depth explanation and prediction.

#### I. THE PENTATEUCH RECITATION IN THE YEMENITE COMMUNITIES

One of the important parts of the Jewish synagogal service is the public recitation of one of the weekly portions from the Pentateuch. Every such portion is divided into seven passages. In accordance with the general Jewish tradition, the Yemenites recite the first passage of the portion at the afternoon service (minhah) on Shabbat and at the morning services (šaharît) on the following Monday and Thursday; they recite the entire portion at the morning service on the following Shabbat. In most of the other Jewish communities, these public recitations are performed by experts (ba alê qerî ah). The Yemenites, however, differentiate between three types

<sup>4.</sup> See, for instance, his opening statement regarding the 'Prophets' mode', (p. 24), the discussion concerning the 'Lamentation mode' (p. 29), the 'selihah mode' (p. 35), and more.

<sup>5.</sup> Idelsohn does not provide us with sufficient information regarding his recordings. We do not know, for instance, whether the transcribed verses are the only recorded ones, or whether he recorded more variants of all these verses.

of performance: (a) the recitation of the entire portion at the morning services of Shabbat and festivals, each passage being recited by a different adult congregant; (b) the recitation of the  $\check{s}i\check{s}\check{s}\hat{i}$  (i.e. the sixth passage) which is usually given to a boy; and (c) the recitation of the Aramaic translation  $(targ\hat{u}m)$  of the entire portion, which is given to another boy. The manner of these recitations is as follows: The reader of the Hebrew text chants a verse, and the boy chants the  $targ\hat{u}m$  to that verse. Thus the reading continues verse by verse.

According to the Yemenites, each one of these three types of recitation is chanted to a special tune, consisting of a melodic phrase which "covers" a whole verse and which is repeated with every verse. Thus, the Yemenites speak of (a) the 'regular tune of the *tôrah*' (Pentateuch); (b) the 'boys' tune', in which the *šiššî* is chanted by a boy; and (c) the 'targûm tune'. A fourth tune, the '*šîrah* tune', is chanted to four special Pentateuch sections: the 'Song of the Sea' in Exodus 14, 30-31; 15, 1-18 (=*šîrat hay-yam*, hence the name '*šîrah* tune'); the Ten Commandments in Exodus 20, 2-14; the Ten Commandments in Deuteronomy 5, 6-18; and the verses recounting the death of Moses in Deuteronomy 34, 5-12.

Apart from the synagogal services, texts from the Pentateuch are also chanted by the Yemenites in the course of the study-sessions which are held in the synagogue every Shabbat before morning prayer; between the afternoon and evening prayers; on the night of  $\check{savu^c} \circ t$  (Pentecost); and on the night of  $h \circ \check{sa^c} n \bar{a} \ rabbah$ , the seventh day of  $sukk \circ t$  (Tabernacles). In general, there are two ways of conducting these sessions: (a) the participants (adults as well as boys) may recite the entire Hebrew text or part of it together, while each of the Hebrew verses is followed by its Aramaic counterpart recited in the 'targum' tune' by one man or one boy who is appointed to sing the entire targum; (b) the recitation of the verses one by one by all present, each participant taking a turn according to the place where he is sitting. Here too each Hebrew verse is followed by its targum recited by the appointed reader of the Aramaic text. In both (a) and (b) the recitation is chanted to the same tune.

We have already mentioned the *heder*, which still functions as the traditional elementary educational institution in many Yemenite communities in Israel<sup>6</sup>. The recitation of biblical texts by the pupils is the basic tool through which Jewish-Yemenite traditional patterns are transmitted

For more details on the heder, see Sharvit, 1980: 33-49.

and preserved. The boys are usually divided into three "grades" according to age. The first graders, after passing the stage of the Hebrew alphabet, learn the traditional pronunciation of complete words and the traditional recitation of verses and clauses from the Pentateuch. This is done through a special 'learning tune'. The boys of the second grade, in addition to this tune, learn two other tunes: the above-mentioned 'boys' tune' and the 'targûm tune'. The third graders learn the 'šîrah tune'.

The differentiation between the above six tunes is based on two criteria: the texts, and the social functions. Thus, the 'tôrah tune', the 'šîrah tune', and the 'targûm tune' are differentiated by their texts. On the other hand, the 'boys' tune', the 'learning tune' of the heder, and the tune for the studysessions in the synagogue indicate three different social functions. This latter criterion is of great importance because the Yemenites' attitude toward all six tunes and, in fact, toward their entire repertory of traditional music, is based largely on the social function of the music. According to the Yemenites, the 'tôrah tune' and the 'šîrah tune' are "the most revered" ones, whereas the 'targûm tune' is "the most simple" because it is usually chanted by a boy, and also because its text is "only a translation". The 'boys' tune' and the 'learning tune' of the heder are both "more revered" than the 'targûm tune' because of their Hebrew text, but still they do not reach the top of the hierarchy because they belong to the boys' repertory. The 'learning tune' of the heder, since it is not a part of the synagogal service, is graded even lower than the 'boys' tune'. This is also the reason for grading the tune of the study-sessions in the synagogue as "very simple", although the text is in Hebrew, and although it is performed mainly by adults.

This distinction between "simple" and "revered" tunes is applied also to different performances of the same tune. A "revered" way of chanting contributes to embellishing the tunes and, through this, the whole event becomes "successful".

Equally, an adult should not sing "like a little boy", because "it is not becoming"; in other words, it works against the social and aesthetical expectations of the Yemenites. A rather strong reaction can be expected if a boy should imitate the "adults' way of singing". Such a boy would be considered impudent. This distinction is expressed through specific musical features which will be discussed below.

<sup>7.</sup> For a longer discussion of this question, see Sharvit 1980: 46.

#### 2. THE YEMENITES' CONCEPT OF THEIR CANTILLATION SYSTEM

There are 28 different te<sup>c</sup>amîm some of which are placed above the letters, others below, generally one to each word. The  $te^cam\hat{i}m$  occur on the initial letter of the accentuated syllable9 and they indicate the role of the word in the syntactic structure of the verse. (These functions do not apply to the meteg and therefore it will not be included in our discussion.) Most verses are divided into two major clauses, each of which may be subdivided into two or more sub-clauses. The points of division between these clauses are indicated by disjunctive  $te^{c}am\hat{i}m$ , placed above (or below) the last word of a clause, whereas the other words of the clause are provided with conjunctive tecamîm. The disjunctive tecamîm are divided into three types according to their syntactic function. (1) The end-of-verse is indicated by the söf påsug, and the main division of the verse into two major parts is indicated by the 'atnaha; these two te camîm are first-degree disjunctives. (2) The sub-division of each of the two major parts of the verse, is indicated by a second-degree disjunctive. (3) The further division of a clause into subclauses is indicated by a third-degree disjunctive.

Thus we have four types of tecamim, named by the Yemenites as follows:

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a. Mölik (lit. "moving")
conjunctive;
b. Mafsig (lit. "pausing")
disjunctive (3rd degree, not strong);
c. Macămid (lit. "standing")
disjunctive (2nd degree, stronger);
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d. Söf påsug

(lit. "end of verse") and 'atnåḥå (lit. "a rest") disjunctive (1st degree, the strongest).

The following is the Yemenite grouping of the  $te^cam\hat{u}$  into these four types: The first type,  $m\ddot{o}lik$ , includes nine different symbols:

<sup>8.</sup> Two exceptional symbols are the maqqaf (or magaf) and the pesiq (or paseg) which are placed between the words.

<sup>9.</sup> Since the final syllable of a word is usually the stressed one, most of the words have only one  $ta^{c}am$ , which occurs on this syllable. In a word whose penultimate syllable is stressed (" $mil^{c}\hat{e}l$ "), most of the symbols would appear on that syllable. There are five symbols (see below, notes 10-13) that appear twice: first, on the stressed syllable and secondly, on the final one. In such a case, one of these five symbols, the fista, is named by the Yemenites taren fista. Thus they speak of 29 rather than 28 different symbols.

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šöfår hölek (\longrightarrow), šöfår håfuk (\longrightarrow), tilšå sǎmöl (\stackrel{\mathbf{q}}{\longrightarrow})^{10}, dirǧå (\stackrel{\mathbf{r}}{\longrightarrow}), magaf (\stackrel{\mathbf{r}}{\longrightarrow}), ma'ǎråkå (\stackrel{\mathbf{r}}{\longrightarrow}), tǎre ṭacǎme (\stackrel{\mathbf{r}}{\longrightarrow}), and yarah ban-yömö (\stackrel{\mathbf{r}}{\smile}).
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The second type, mafsig, includes seven different symbols:  $zirgå (\stackrel{\sim}{\sim})^{11}$ ,  $tifhå (\stackrel{\sim}{\leftarrow})$ ,  $y\check{a}\underline{t}iv \ mugdåm (\stackrel{\sim}{\sim})$   $påseg (\stackrel{\leftarrow}{\leftarrow})$ ,  $fi\check{s}t\mathring{a} (\stackrel{\sim}{\leftarrow})$ ,  $\check{s}al\check{s}ala\underline{t} (\stackrel{\bullet}{\longrightarrow})$ , and  $t\check{a}ren \ fi\check{s}tin (\stackrel{\sim}{\leftarrow} \stackrel{\sim}{\sim})$ .

The third type,  $ma^c\check{a}mi\underline{d}$ , includes eight different symbols:  $z\mathring{a}gef\ \check{g}\mathring{a}d\ddot{o}l\ (\stackrel{\underline{\iota}}{-})$ ,  $z\mathring{a}gef\ g\mathring{a}t\mathring{a}n\ (\stackrel{\underline{\iota}}{-})$ ,  $s\check{a}\bar{g}ul\mathring{a}t\mathring{a}\ (\stackrel{\underline{\iota}}{-})^{12}$ ,  $p\mathring{a}zer\ (\stackrel{\underline{\iota}}{-})$ ,  $garne\ f\mathring{a}r\mathring{a}\ (\stackrel{\underline{a}\underline{\rho}}{-})$ ,  $r\check{a}biya^c\ (\stackrel{\bullet}{-})$ ,  $t\check{a}bir\ (\stackrel{\underline{\iota}}{-})$ , and  $til\check{s}\mathring{a}\ y\mathring{a}min\ (\stackrel{\underline{\rho}}{-})^{13}$ .

The fourth type, which is considered the strongest  $ma^c \check{a}mi\underline{d}$ , includes the two symbols mentioned above:

söf påsug (--), and 'atnåhå (--).

'atnåḥå sometimes serves as a second-degree disjunctive rather than a first degree.

Three more symbols, 'azel wö-'ate ( $\stackrel{\frown}{\frown}$ ), 'ate ( $\stackrel{\frown}{\frown}$ ), and taren tirsin ( $\stackrel{\frown}{\frown}$ ), are considered  $ma^c$  amidim (second-degree disjunctives) except when they are followed by the cantillation r abiya $^c$ . In that case, they become mafsigim (third-degree disjunctives).

According to the Yemenites, the two first-degree disjunctives, söf påsug and 'atnåhå, which are considered the strongest macămidim, reflect the strongest "power of closure" (=köah ha-hafseg) in a verse; the 'atnåhå closes the first part of a verse, and the söf påsug closes the whole verse. Consequently, the second-degree disjunctives are considered macămidim of less strength since they end the clauses, thus reflecting a lesser "power of closure", and the third-degree disjunctives are considered only mafsigim since they end the sub-clauses, thus reflecting the least "power of closure" in a verse. The following is an example of a printed biblical verse (Numbers 1: 1) divided into clauses and sub-clauses according to the syntactic hierarchy of the cantillations. This division is common to all Jewish communities whereas the names of the tecamîm and their syntactic function are used solely by the Yemenites<sup>14</sup>.

This is one of the five te<sup>c</sup>amîn which appear twice on a "mil<sup>c</sup>êl" word. See above, note 9.

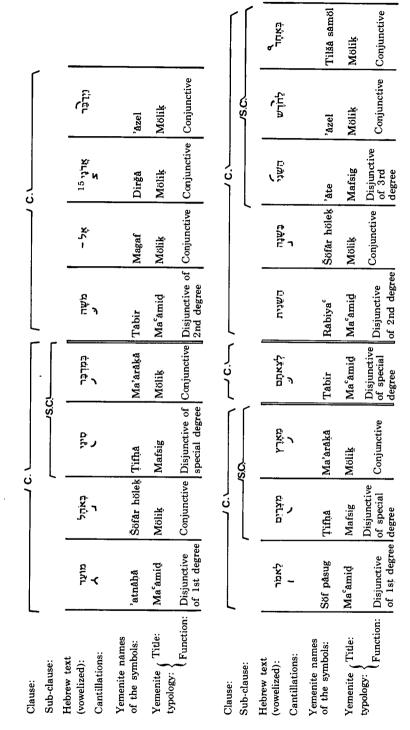
<sup>11.</sup> See note 10.

<sup>12.</sup> See note 10.

<sup>13.</sup> See note 10.

<sup>14.</sup> Regarding the syntactic function of the te<sup>c</sup>amîm, see also Bayer (1971), Breuer (1958), Dotan (1971), Levi (1966), Ne'eman (1955), and Rosowsky (1957).

Table 1. THE SYNTACTIC DIVISION OF A VERSE (reading right to left)



#### 3. THE FORMAL PRINCIPLES OF THE SIX PENTATEUCH TUNES

One of the traditional features common to the Pentateuch tunes of many Jewish Communities, is that every tacam has a fixed musical motive. The Yemenites, however, deviate from this norm in that they have fixed motives not to a single tacam but rather to a syntactic function which may be indicated by several tecamîm. Thus, different tecamîm may be chanted according to the same motive when they indicate the same syntactic function. The primary principle, then, is that each one of the six tunes mentioned above reflects the syntactic structure of the verses through special fixed moptives, or "movements" 16, eahc of whic is chanted on the last stressed syllable of the final word of a clause. Most of the verses consist of at least three such movements: (a) the final movement of the tune, chanted on the last word of the final clause; (b) the movement which designates the final word of the penultimate clause; and (c) the opening movement, which expresses the first clause of the verse. In the following discussion, 'F' will indicate the final movement and 'Y', the opening one. The penultimate movement, which "heralds the coming end-of-verse" as the Yemenites say, will be indicated as 'H'.

When a verse consists of more than three clauses, its tune may be expanded by repeating the opening movement 'Y' several times depending on the number of clauses preceding the penultimate one. This principle of "backwards-development" also characterizes the individual clauses. When a clause is further divided into sub-clauses, the opening sub-clause gets the new movement, 'X', whereas the regular movement ('Y', 'H', or 'F') designates the final sub-clause. A typical musical phrase of a simple tune can be described as follows:

$$(X) Y, (X) Y, ...(X) Y, (X) H, (X) F$$
.

The three movements 'X', 'Y', and 'F' express the syntactic functions of the three types of disjunctive mentioned above: 'X', which indicates a subclause, expresses a third-degree power-of-closure (mafsig); 'Y', which indicates a clause, expresses a second-degree power-of-closure (macămia); and 'F', which indicates a final clause, expresses a closing power of the first degree. Movement 'H' is exceptional in that it does not express any degree

<sup>16.</sup> I have adopted the term "movement" suggested by A.Z. Idelsohn in his book mentioned above. It seems to me that the term successfully reflects the fact that the importance of this musical motive lies not in the absolute pitch of its tones, nor in fixing exact intervals between the tones, but rather in the direction of the melody's "movement" and the rhythmic patterning of its final tones.

of disjunctive. Its function is rather to establish the overall form of the entire verse through "heralding" the coming 'F'. Hence, its special musical realization of the penultimate symbol of the  $ma^c \check{a}mi\underline{d}$  type, which is different from the regular 'Y' movement of the other  $ma^c \check{a}mi\underline{d}im$  in the verse. The Yemenites call it kisra (="broken" in Arabic) because it "breaks the fluency of the verse", as they say.

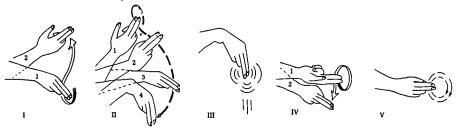
Three tunes, namely, the 'targûm', the 'šîrah', and the tune of the learning sessions, are considered "simple" ones because even their most complicated version is structured on the basis of no more than the above four movements. The other three tunes, namely, the two tunes of the heder and the 'tôrah tune', are considered "more complicated" since they are divided into two complete musical units each of which is based on an opening movement 'Y' and a final movement 'F'. The first 'F', which ends the first unit, designates the symbol 'atnaha, whereas the final 'F' designates the söf pasug. Both of these ultimate disjunctive symbols of each syntactical part of a verse, are preceded by the same symbol, tifhå (-), which is the penultimate disjunctive of each part. Although tifhå belongs to the mafsig type, it has two kinds of new musical movements, 'P' and 'P1', which are dif-'X', the regular movement of the mafsigim. (="Penultimate"), which is the realization of tifhå preceding 'atnåhå, functions as "heralding" the end of part I of the verse, and 'P1', which is the realization of tifhå preceding söf påsug, functions as an additional "heralding" movement (following movement 'H') which precedes the end of the final part of the verse. Thus, by the appearance of 'P' before 'F', the musical phrase gets its meaning as the opening part of the tune, and by the appearance of 'H' followed by 'P1', the musical phrase gets its meaning as the closing part. A typical structure of such a tune can be described as follows: (X) Y, (X) Y, ...(X) Y, P, F;

 $(X) Y, (X) Y, ...(X) Y, (X) H, P_1, F.$ 

The basic structure of this two-part musical phrase is further emphasized by the technique of cheironomy which is widely known among the Yemenite communities in Israel. This phenomenon may be observed during the synagogal services when the performer of the Pentateuch recitation does not remember the cantillation symbols of the text<sup>17</sup>. When this happens, he is helped by a person who stands on his left, who, looking at a printed Bible

<sup>17.</sup> The Yemenites follow the ancient custom common to all Jewish communities of reciting the Pentateuch at public services from a parchment scroll. The scroll does not contain vowels, punctuation signs or  $te^cam\hat{u}m$ .

showing the tecamîm, moves his right hand in a certain manner, using a little pointer or his index finger. This technique includes five different handmotions, four of which indicate the four basic musical movements; (1) the raising of the pointer (or the finger) together with a clockwise turn of the hand indicates a mafsig, i.e. a third-degree disjunctive ('X'); (2) the lowering of the pointer together with the turn-back of the hand indicates a maramid, i.e. a second-degree disjunctive ('Y'); (3) the repetitive motion of lowering the pointer or the shaking of the pointer in a downward direction indicates the symbol 'atnāḥā, i.e. the first-degree disjunctive ('F'); and (4) the rightward motion of the pointer together with a counter-clockwise turn of the hand indicates the kisra ('H'), i.e. the penultimate maramid in the verse. Thus, in a verse whose 'atnāḥā is the penultimate maramid, it would be indicated not by the third hand-motion but by the fourth one.



The aim of these four motions is, therefore, to indicate the structural function of the four main movements of the musical phrase. Hence there is no need for a special indication for the movement of söf påsug, because its chanting is 'assured' through the indication of its preceding kisra. A fifth hand-motion (5), whose aim is rather to describe the character of a particular movement, consists of a clockwise roll of the pointer. This is the description of the "trilled" (mesulsal) movement of the symbol zirgă, the only one which indicates a melodic contour rather than a structural or a syntactical function<sup>18</sup>.

The term 'trill' (silsûl) is the Yemenite expression of one of the musical features characterizing a "revered" tune or a "revered" way of chanting.

18. A different cheironomy system, used by the Italian community in Rome, is mentioned in Adler, 1981.

Another such system is described in  $Mahberet\ hat\text{-}tigan$ , published (Paris, 1876) from an anonymous fourteenth century manuscript. The description of nine movements indicating nine  $te^{c}amim$  is followed by the phrase "and thus similarly for all the accents and servants" (p. 416). This reflects a tradition according to which every  $ta^{c}am$  had a particular tune, as is explicitly stated on p. 383. Although Yemenites today do not follow this tradition, one remark regarding the handmovement for the  $t\ddot{a}bir$  may hint at some connection: "[the  $t\ddot{a}bir$ ] turns the hand and breaks the word" (p. 380). Such a gesture exists today among the Yemenites to mark the kisra, which "breaks the fluency of the verse" as I have already indicated.

This conceptual characterization, together with that concerning the number of different movements, will provide our basis for the following tune analyses.

#### THE MUSIC

The Yemenite division of tunes into "simple" and "revered" implies a musical hierarchy in which the more embellished the tune, the higher its position in the hierarchy. It is important, therefore, to analyze the tunes in their hierarchical order, from the simplest tune to the most elaborate one. THE 'TARGUM TUNE'

The targûm is now printed without cantillation symbols; only a dot separates one verse from the other, and a comma one clause from the other. Therefore the tune expresses the division of this translated verse with respect to its syntax and not with respect to the cantillation symbols of its parallel Hebrew verse. Following is the tune of the Aramaic translation of our sample verse (Numbers 1, 1).



19. The musical transcriptions in this study are not statistical summations of any number of recorded variants, nor perfect descriptions of any particular one. Rather, they represent typical versions of the tunes, recognized as such by the Yemenites who listened to several versions of each tune. The rhythmic values represent the actual rhythmic relationships in performance, so that Yemenite concepts of rhythm and form can be perceived in these examples.

We can describe the tune thus:20



Every asterisk indicates an accented tone starting a group of tones on which the last stressed syllable of the word is sung. This group, which is fixed in terms of melodic contour and rhythmic relationships of its tones, is named  ${}^c\check{a}mid\mathring{a}^{21}$  (="standing") because "the tune stands for a while at that point" as the Yemenites say. The formal organization of the movements is based on the following three principles: (a) The musical realization of a clause is on the last stressed syllable of the final word; (b) the final movement of the tune, 'F', is preceded by a "heralding" one, 'H'; and (c) the opening movement, 'Y' is repeated several times depending on the number of clauses preceding the penultimate one.

A typical structure of the 'targûm tune' can be described thus:

Y, Y, ... Y, H, F.

THE 'ŠÎRAH TUNE'

The following example is a typical boys' version of the tune as chanted in the *heder* on a verse from the Song of the Sea (Exodus 15, 16).

Ex. 2 The 'sîrah tune'—boys' version (Yc 742)



- 20. The large-size heads indicate longer duration of those tones in comparison with the tones indicated by small-size heads.
- 21. This word, together with the word  $ma^c \check{a}mid$  mentioned above, are two verbal nouns derived from the same root  $^cmd$  עמד.

Like the verses of the  $targ\hat{u}m$ , here, too, every verse is a complete musical unit. Here this is so since the symbol 'atnåhå designates a second-degree  $ma^{\alpha}mid$  rather than a first-degree disjunctive, thus avoiding the division of the verse into two parts. The final movement, 'F', is the musical realization of the symbol  $s\ddot{o}f$  påsug, and it is considered the strongest  $ma^{\alpha}amid$  (i.e. primary disjunctive) in the verse. The "heralding" movement 'H' designates the penultimate symbol of the  $ma^{\alpha}amid$  type in the verse (=the kisra), movement 'Y' designates all the other symbols of the  $ma^{\alpha}amid$  type, movement 'X' designates all the symbols of the mafsig type including the tifha, and movement 'Xi' is the musical realization of the mafsig symbol immediately preceding the kisra.

A typical structure of the 'šîrah boys' tune' can be described thus:

$$(X) Y, (X) Y, ... (X) Y, (X_1) H, (X) F.$$

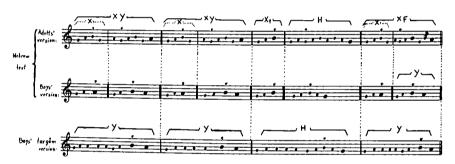
The above version is performed by the boys in the *heder* and also by the whole congregation in the synagogue during a learning session, an event which will be discussed further on. At this point it is important to mention that, on both occasions, it very often happens that the singing becomes slower, very rhythmic, and develops into a two-part "organum"-like texture of parallel fourths or fifths.

The first of the following two examples demonstrates the adults' version of the 'šîrah tune' as it is chanted in our sample verse (Exodus 15, 16). The second example demonstrates the Aramaic translation to this Hebrew verse as recited by a boy in the same 'šîrah tune' but in a "simple way".





According to the Yemenites, these two versions, together with the *šîrah* version of the *ḥeder* described above, are considered the same tune. The following is a schematic description of the three versions of the *'šîrah* tune'.



There is, however, an intentional distinction between the adults' version and the two boys' versions. The former is considered the "most esteemed", and "more beautiful" than the other two boys' versions, whereas the targûm version is considered the "most simple one". This differentiation is the result of three features.

The first feature consists of "lengthening the cămidā-s by adding trills", as the Yemenites say. This process is expressed through applying the complete melodic pattern of a movement to a single syllable, and also through augmenting a movement by repeating one or more of its tones prior to the final one. These two ways, which can be seen when we compare movements 'Y', 'H', and 'F' of the adults' version with the parallel movements of the other two versions, are important factors in structuring the whole musical phrase. The adult can expand the 'F' over the other macāmidim of the tune by adding longer 'trills', thus indicating the end-of-verse. Boys, on the other hand, since they do not use this technique in order not to be impu-

dent, have only the "heralding" movements 'X1', and 'H' to indicate the coming end-of-verse.

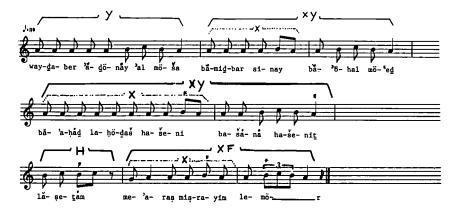
Another way which expresses the process of "lengthening the "amida" is the creation of melodic fluency. This phenomenon, which occurs in all 'X' movements of the adults' version, consists of replacing the final, long-duration, tone of the parallel 'X'-s of the boys' versions by two tones of short duration. The second feature is the number of different movements. In the targûm version, since the printed text does not divide the clauses into subclauses, there are only two movements ('Y' and 'H'). In the boys' version of the Hebrew text, according to which the verse is divided into sub-clauses, there are four movements ('X', 'Y', 'X1', and 'H'). In the adults' version, there are five movements ('X', 'Y', 'X1', 'H', and 'F') because, unlike the boys' versions whose closing movement is similar to its 'Y'-s, here, as indicated above, 'F' is different from the 'Y'-s in that it is more "trilled".

The third feature is the slow tempo which marks the distinction between the "esteemed" version of the adults and the "simple" targûm with its characteristic fast tempo.

#### THE TUNE FOR THE STUDY-SESSIONS IN THE SYNAGOGUE

The following is the tune used by adults in study sessions, which are of course not part of synagogal services. The verses are recited from books (not from the scroll) by the entire group.

Ex. 5 The tune for the study-sessions in the synagogue (Yc 750)





The schematic description of this tune, when applied to our sample verse (Numbers 1, 1), is as follows:



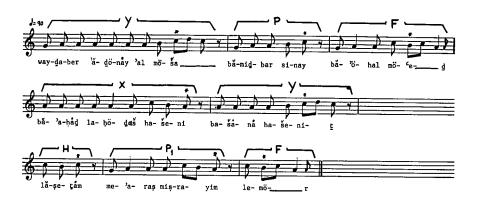
Like the tunes of the targûm and the šîrah, here, too, every verse is chanted as a complete musical unit. As in the 'šîrah tune', here too the symbol 'atnāḥā designates a regular  $ma^c \check{a}mi\underline{d}$  (secondary disjunctive). The melodic line of the final movement of this tune is identical to the melodic line of the movement of the rest of the  $ma^c \check{a}mi\underline{d}im$ , that is, all the 'Y' movements in the verse. The only difference between them is the length of the ' $\check{a}mi\underline{d}\check{a}$  of 'F' compared to the short ones of all 'Y' movements. This fact, together with the appearance of the particular movement 'H', gives the 'F' its cadential strength and, therefore, its meaning as the closing movement.

The tune is considered "simple" because "it is not much trilled and it is chanted very fast", the Yemenites claim. Another feature which might add to the feeling of simplicity is the fact that it consists of only four movements: 'F', the closing one; 'X', which is common to all symbols of the mafsig type including the tifhå; 'H', the penultimate macāmid in the verse; and 'Y', which is common to all the rest of the symbols of the macāmid type. It is important to point out the organum-like singing which very often occurs during the congregational singing, a phenomenon which has been mentioned in connection with the 'šîrah tune'. Here, too, the congregational singing is very rhythmic, and much slower than the solo chanting.

#### THE 'LEARNING TUNE'

The following is an example of the tune as recited in the sample verse (Numbers 1, 1).

Ex. 6 The 'learning tune' (Yc 630)



The musical realization of both 'atnaha and sof pasug is indicated above as 'F'. The opening clause of the first part of the verse ends with the word whose symbol is \_, the tabir, and the opening clause of the second part ends with the word whose ta cam is •, the rabiya c. Both symbols are of the ma amid type (secondary disjunctive), whose musical realization is indicated above as 'Y'. It has been mentioned that every such clause may be further divided into sub-clauses whose final words are designated by cantillations of the mafsig type (third-degree disjunctive). In our example, this type comprises the symbol 'ate (-)22 in the second part of the verse, whose musical realization is indicated as 'X'. 'H' comprises the symbol tabir, 'P' is the realization of tifhå preceding 'atnåhå, and 'P1' is the realization of tifhå preceding söf påsug. The mölik type (conjunctive) comprises, in our example, the symbols 'azel  $(\frac{\Lambda}{2})$ , tilša samol  $(\frac{\Lambda}{2})$ , dirža  $(\frac{\Lambda}{2})$ , ma'araka  $(\frac{\Lambda}{2})$ , and šöfår hölek (\_\_). Each of these tecamîm, which indicates a word included within a clause or within a sub-clause, does not have any power of closure. Its function is, rather, to attach the accented word to a closest following word accented by a disjunctive ta cam. The tune and its division into the eight movements can be described thus:



<sup>22.</sup> This is an example of 'ate coming before  $r\tilde{a}biya^c$ , a case in which 'ate turns to be a massig type instead of  $ma^c\tilde{a}mid$ .

It must be added that, in this tune, the opening movement 'Y' may be repeated several times depending on the number of clauses preceding the final clause ('F') in the first part or the penultimate clause ('H') in the second part.

A typical structure of the 'learning tune' can be described as follows:

- (X) Y, (X) Y, ...(X) Y, P, F;
- $(X) Y, (X) Y, ...(X) Y, (X) H, P_1, F.$

#### THE 'BOYS' TUNE'

Our sample verse (Numbers 1, 1) will also allow us to demonstrate this tune through the following example which presents two possible variants:

Ex. 7 The 'boys' tune' (Yc 750)

way-da-ber 'a-do-nay 'al mo- sa ba-mid-bar si- na- y ba-'o- hal mo- 'e-d

ba- 'a-had la-ho das ha- se- ni ba- sa- na ha- se- ni- t

la- se- ta- m me- 'a- ras mis-ra-yim le- mo- r

For the Yemenites, the two variants are identical. Indeed, the similarity between the variants is very clear when we compare the melodic contour of the most important movements in the verse, namely, 'M' and 'F'. But even the seeming difference in melodic contour between the other parallel movements of the variants is, practically, ignored by the Yemenites. They comment that, since the 'amida's of the parallel movements are chanted on the same syllable and are similar in their melodic contour (like 'P' and 'H') or in

their relative duration (like 'Y' and 'P1'), the other differentiating features "have no importance".

For the purpose of comparison between the above 'learning tune' and this tune, the first variant of the latter will serve as the representative case, because the similarity between the 'learning tune' and this variant will sharpen the most meaningful features that differentiate between the two tunes.

The schematic description of the first variant is as follows:



In general, the tunes are similar in their division into eight movements and in the syntactical function of these movements. But the main difference between the tunes lies in the structure of movements 'X', 'P' and 'P1'. In the 'learning tune', each one of these movements was identified as a "disjunctive" of a fixed melodic contour whose distinctive feature was its final, lengthy tone. In the 'boys' tune', however, these three movements do not end with fixed single tones. Rather, they are chanted as "conjunctive" movements of a flexible melodic contour, attached to the following 'Y' or to other movements of the disjunctive type. As a result, while maintaining the lengthy duration of the 'amida', thus giving it a distinctive power-of-closure, the performers, by avoiding a single final tone of lengthy duration, create a melodic fluency through the movements.

The Yemenites are aware of this differentiating feature, and they see the 'boys' tune' as more "trilled" than the 'learning tune'. Regarding the 'atnāḥā and the söf pāsug, there is also an interesting difference between these two tunes. Unlike the 'learning tune', whose final movement is the same for both 'atnāḥā and söf pāsug, the 'boys' tune' differs between the two symbols. The musical realization of 'atnāḥā, is similar to movement 'F' of the 'learning tune', but that of söf pāsug, is a new movement. Thus, the 'familiar' final movement marks the completion of the first part of the verse, and the new movement marks not only the end of the second part of the verse, but also the completion of the entire verse. The new 'F', then, becomes the strongest disjunctive in the verse, while the old 'F', sung on 'atnāḥā, becomes a 'mediant' (='M') movement, and a disjunctive secondary to 'F'. As such, 'M' joins the three "heralding" movements 'P', 'H', and 'Pı' in their function as the establishers of the overall structure of the complete musical unit of the 'boys' tune'.

A typical structure of the 'boys' tune' can be described as follows:

- (X) Y, (X) Y, ...(X) Y, P, M;
- $(X) Y, (X) Y, ...(X) Y, (X) H, P_1, F.$

An important feature of both 'learning tune' and 'boys' tune' is the possibility of changing their formal organization, depending on the syntax of the verse. This phenomenon can be exemplified by a short verse (Numbers 1,51) whose second part consists only of the disjunctives tifhå and söf påsug. In such a case, the necessity of having a complete musical unit expressed by the succession of movements 'H', 'P', and 'F' is stronger than the need to express the division of the verse into two parts through the realization of 'atnåhå as 'M' in the 'boys' tune' or as 'F' in the 'learning tune'. The following three examples are transcriptions of parts of a recording made during a learning session, in which the above-mentioned verse (Numbers 1,51) was studied. As customary in such sessions, the verse stated by the teacher (Ex. 8), repeated by a group of boys (Ex. 9), and repeated again by one boy (Ex. 10), was sung each time as a single musical unit.





As can be seen in the transcription of the latter variant (Ex. 10), the 'at-nåhå is realized as a kisra, namely, the last macamid before söf påsug. As such, it is sung as the "heralding" movement 'H'. The following is a schematic description of that variant:



These three melodies (Ex. 8-10) are considered by the Yemenites as three versions of the same tune. The difference in pitch between the versions does not have any conceptual meaning for the Yemenites, although they do comment that boys "naturally have thin voices". The melodic embellishments and the special rhythmic patterning of the möri's version (Ex. 8) are considered "lengthening the cămida points" by filling them out with "'trills' which turn the tune into a more revered one". Thus, the tune as chanted by the boys (Ex. 9) is considered "the least enriched", the solo performance (Ex. 10) is "more enriched", and the möri's version (Ex. 8) is considered "the most enriched one". Regarding the organum-like sonority and the slow tempo of the boys' chanting (Ex. 9), the Yemenites comment that "this is the way a coherent group of boys should sing; slowly and together". Another result of an elevated and enthusiastic atmosphere is the unconscious process of a gradual rise in the general pitch in the course of singing.

Through acquiring both the 'boys' tune' and the 'learning tune', the boys in the *heder* become acquainted with four main principles of Jewish Yemenite traditional music:

- 1) The structure of a verse as well as of a musical unit is recognized through hierarchical arrangement of different musical movements which function as disjunctives of varying power-of-closure.
- 2) The distinctive and meaningful feature of a musical unit of any size is its final part. Consequently, the formal development of a musical unit is achieved by inserting additional material in the opening part, while keeping the final one unchanged. The development may proceed within a small unit (the singer may embellish the syllables preceding any disjunctive point); a large unit (the singer may add 'X' movements before concluding with a 'Y' movement); and a still larger unit (he may add complete 'X-Y' movements before any 'H' movement).
- 3) In general, a tune can be "more beautiful" when it is performed by a group in a two-part "organum" or when there is a constant process of a gradual rising of pitch<sup>23</sup>. Both phenomena occur unintentionally when, in the course of the chant, the participants work themselves into ecstasy.
- 4) The tune is evaluated as "simple" and, therefore, "childish" or even "inferior", when its movements are chanted in accurate diatonic steps, creating a melodic line whose range reaches the interval of a fifth, and the tones are of fixed time-value. On the other hand, a "revered" way of singing is based on a melodic line of narrower range consisting of micro-intervallic steps, on tones of unfixed rhythm, on slow temporal lingering of the syllables, and on a process of creating melodic fluency through performing 'trills'. The latter are produced by filling out the disjunctive points (pauses as well as tones of long duration) with two or three successive tones of short duration, or with rapid alternation of the final tone with the approximate minor second below or above it.

Through practising the musical realization of biblical tecamîm, the boys in the heder learn not only the traditional principles of Jewish Yemenite music, but also the broader connection between music and other Yemenite cultural features. This connection is expressed through the distinction of certain biblical texts and also through the differentiation between the status of boys and that of adults.

<sup>23.</sup> Idelsohn mentions this latter phenomenon without realizing its broader function (Idelsohn 1913 [1925]: 18).

THE 'TÔRAH TUNE'

It has already been mentioned that, according to the Yemenites, both Shabbat and weekday recitations are chanted "in the same 'tôrah tune'". On Shabbat, however, the tune is "more revered" than the "simple" one sung on weekdays. The following example demonstrates these two versions according to which our sample verse is chanted.

Ex. 11 (Yc 750)



Both versions of this tune can be described schematically thus:



The similarity between this tune and the 'learning tune' and 'boys' tune' is expressed through their general form as well as through the syntactical function of their movements.

An interesting difference between the tunes of the heder and the 'tôrah tune' concerns the realization of the kisra ('H'). Its melodic contour, which resembles that of 'Y' in the tunes of the heder, turns into a kind of diminished 'F' in the 'tôrah tune'. The reason for this may be that in the heder, emphasis is placed on the basic elements of the syntactical divisions, and the fact that 'H' is also a penultimate symbol is not stressed, out of pedagogical considerations. Therefore 'H' resembles the rest of the macamidim, i.e. the 'Y' movements. On the other hand, adults, who are able to broaden the scope, stress the overall form of the verse through expressing 'H' not only as a special disjunctive, but also as a musical preparation for the coming 'F'. There are two other factors in this process of emphasizing the overall form of the verse. The first one concerns the melodic resemblance of 'P1' to 'H' and, therefore, to 'F'. The result is a coherent final group of movements, which further emphasizes the strength of 'F' as a cadential point. The second factor is the rhythmic fluency of 'P1' towards 'F' and of 'X' toward the following macamidim. Thus, the 'tôrah tune' continues the same process which started with the 'boys' tune', namely, the expression of the 'conjunctive' meaning of these mafsigim through inserting "more 'trills'" or through "lengthening the cămida" as the Yemenites say. But the adult performer does not limit himself to the rhythmic fluency of these two movements. Rather, he tries to "enrich" all of the movements by lengthening

their 'amida-s. Indeed, in both versions of the 'tôrah tune', the 'amida-s are much richer in tones and wider in range than the 'amida-s of the heder tunes. Consequently, the Yemenites call the various 'amida-s of the 'tôrah tune' "adults' 'trills'", a musical term by which they differentiate between a "simple tune" and a "more revered" one, as we have already mentioned regarding the 'sîrah tune'. This distinction can clearly be seen in movement 'Y', for instance, where its 'amida in both tunes opens and closes on the same tone, 'c'. In the tunes of the heder, the 'amida-s consist of three tones; in the "simple" version of the 'tôrah tune' the 'amida-s consist of 4-5 tones; and in the "revered" version, they consist of 6-8 tones. The range of both of the latter versions is approximately a third, whereas the range of the tunes of the heder is a second. Finally, while in the tunes of the heder, only the final tone is of a lengthy duration, in the "simple" 'tôrah tune', both the first and the final tones of the 'amida are lengthy and, in the "revered" version, a third tone becomes lengthy.

The same thing can be traced in examining movement 'F' whose 'amida', in the tunes of the heder, consists of 3-4 tones, the range of which is a minor third, and only the final tone is of lengthy duration. In the 'tôrah tune', the 'amida' of 'F' consists of 6-14 tones ranging approximately a fifth, with two or three tones of lengthy duration.

The 'tôrah tune', then, is not only a developed version of the tunes learned in the heder, but also an advanced level of musical achievement which follows the cultural concept of the Yenenites, and which expresses the meaning of two socio-cultural features: the status of adults versus that of boys, and the importance of the Shabbat versus that of weekdays.

Before reaching our conclusions, we should mention the tacam zirga which is unique among the 28 (29) cantillation symbols. Syntactically, it functions as a mafsig (third-degree disjunctive) preceding its fixed macamid (second-degree disjunctive), namely, the symbol sagulata. Musically, however, the zirga has a special "trilled" movement, which is also common to the tunes of the heder, and which can be performed in a more "revered" variant: significantly. In the other tunes mentioned above, the zirga is realized as an elongated mafsig of each particular tune. This is the only case where the musical realization of a symbol functions as an aesthetical feature rather than a syntactical one.

#### CONCLUSIONS

The following chart presents a schematic description of the above six

tunes, the classification of which follows the Yemenite grading of "simple" or "less enriched" versus "revered" or "more enriched" tunes. This grading is based on three musical phenomena: (a) the melodic and rhythmic structure of the movements; (b) the number of different movements and their syntactical function in a tune; and (c) the function of these movements in organizing the musical phrase.

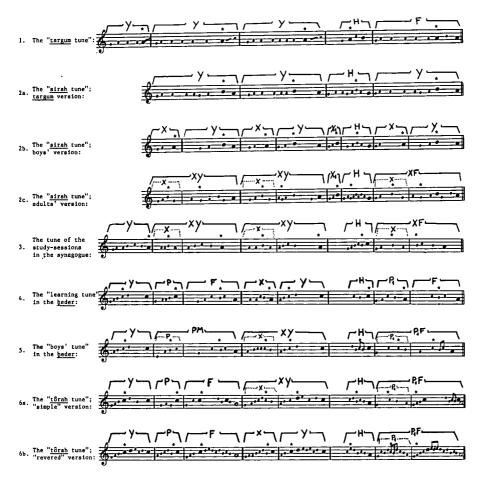
(a) Considering the melodic and rhythmic structure of the movements, the chant demonstrates very clearly the Yemenites' conception that a tune "becomes more revered" through the performance of more 'trills', and through lengthening the 'amida's of its mafsigim and ma'amidim. An 'amida' becomes longer by increasing the number of its tones and also by lengthening the duration of some of them. Such augmentation is, usually, the result of repeating some of the tones of the movement, but very often, it is the result of applying the entire melodic pattern of the movement to a single syllable, the last stressed one of the clause. Such is the case with movements 'Y' and 'H' of the adults' version of the 'sîrah tune', whose 'amida's consist of the entire melodic pattern of 'Y' and 'H' of the boys' version.

Another way of turning a tune into a more "trilled" version is by adding one or two tones in order to heighten the ascending line of the opening part of the movement, thus widening its range.

Examining the 'Y' movements throughout the tunes, we can see that in the 'targûm tune' (No. 1), the range is of an approximate second; in the three versions of the 'šîrah tune' (2a, 2b, and 2c), it is of an approximate third; in tune No. 3, the range of 'Y' is a fourth; in the tunes of the heder (4 and 5), it is a fifth; and in tunes 6a and 6b, it is a sixth.

The same phenomenon can be traced when we examine all the other movements of the tunes. Looking at the 'amidå-s of 'Y', we have already mentioned the difference in the number of tones between the 'tôrah tunes' and the tunes of the heder. It is important to point out tunes 1 and 3, the most "simple" ones, whose 'Y' movements consist of a single-tone-'amidå. The same hierarchy can be seen in the 'Y' movements of the 'sîrah tune', whose 'amidå-s in versions 2a and 2b are sung on two tones, whereas in 2c, the adults' version, the 'amidå-s of 'Y' consist of 5 tones. The same phenomenon can be found in the other two ma'amidim, 'H' and 'F'. In the "revered" version of the 'tôrah tune', the 'amidå-s of 'H' and of 'F' consist of 8 and 14 tones respectively, and in the adults' version of the 'sîrah tune', they consist of 7 and 6 tones respectively. In all other tunes, however, the

'ămidå-s of 'H' and of 'F' consist of a lesser number of tones. The same process occurs with all of the mafsigim, but it stands out very clearly with the movement of 'Pı', whose cămida consists of six tones in tune 6b, of three tones in tune 6a, of two tones in 5, and of one tone in 4.



A comparison between 'F' and 'Y' of the same tune, however, shows that, in tunes 1, 2c, and 3, 'F' is always an augmented 'Y'. This process, therefore, gives meaning not only to the hierarchy of the tunes, but also to the hierarchy of the movements within a tune. The hierarchy is also expressed in tunes 4, 5, 6a, and 6b, but through a different process. In tunes 4, and 5, 'F' applies the rhythmic pattern of the 'cămida' of 'Y' to the "completion of the melody", as the Yemenites say, i.e. to the descending part, up to the 'tonic' 'a'. In tune 6a, the intermediate 'F', which is an augmented 'Y', consists of the entire 'Y' and of an additional descending

part up to the 'tonic' 'a'. The final 'F' of the same tune, which is an augmentation of the intermediate 'F', applies the resulting extended melody to a single syllable, the last stressed one of the final clause. This same process also occurs in tune 6b, whose intermediate 'F' is an augmented 'Y', and whose final 'F' is the augmentation of the intermediate 'F'.

Another important factor which emphasizes the hierarchy of the movements within a tune is the melodic similarity between the *massigim* and the *masamidim*. In tunes 2 and 3, movements 'X' and 'X<sub>1</sub>' consist of parts of 'Y'; in tunes 5, 6a, and 6b we also find a similarity between 'X' and 'Y'; and in tunes 4, 5 and the two versions of tune 6, there is also a conspicuous similarity between 'P' and 'Y'.

Regarding movements 'H' and 'Pı', their melodic similarity to the final 'F' is another factor which emphasizes their function as "herlading" the *söf påsug*.

It must be added that the Yemenites prefer to lengthen the 'amida-s not so much through widening the range of the movements, as through chanting long, rapid 'trills' of micro-intervallic steps while narrowing the range of the movements, as in Ex. 8. This preference is also expressed through the cheironomy system mentioned above, whose five motions are not indications of pitch but are rather descriptions of lengths of 'trills' and indications of syntactical functions.

The aesthetic principle common to the above ways of building musical phrases is that of accumulating similar segments, the smallest possible ones, into larger forms. Through this process, a tune becomes "enriched" and, therefore, "more important and revered".<sup>24</sup>

- (b) Considering the syntactic function of the movements, we can recognize six degrees of musical "enrichment". The first (lowest) degree concerns the *targûm* version of the '*šîrah* tune' (No. 2a). It consists of only
- 24. We find this same principle in the fields of Yemenite embroidery, silversmith work and dance. The Yemenites claim that a dance becomes "revered" when it is performed by adults who know how to enrich their body movements beyond the basic patterns. An example regarding silversmith work can be found in the various pieces of jewellery described by Eilon 1976. The *labbeh* (fig. 5), a neck ornament worn on festive occasions, is much richer than the  $ma^c$  anakeh (fig. 6), which is intended for everyday use. This richness is made up of an accumulation of segments similar to those found in the  $ma^c$  anakeh.

Another example of this principle, regarding embroidery, can be seen in an article dealing with Yemenite dresses (Bar<sup>c</sup>am 1979). A dress for everyday use (fig. 10) is very similar in its general outline to the dresses for festive occasions (fig. 4 and 6), but it is much less elaborated. The elaboration of the latter is based on filling in the empty spaces of the general outline with the same stitching patterns and forms that are used for the everyday dress.

two movements, 'Y' and 'H', which are the realization of the four main clauses. The second degree of enrichment concerns the 'targûm tune' (No. 1). It also expresses the four main clauses which are realized here by three movements, 'Y', 'H', and 'F'. The third degree concerns the tune of the learning sessions (No. 3). It has, in addition to the above three basic movements, a fourth one, 'X', which is the realization of all the similar tecamîm of the mafsig type. This tune, then, emphasizes the difference between the clauses and the sub-clauses included in it. The fourth degree of enrichment concerns the boys' version of the 'šîrah tune' (2b). It is similar to the tune of the learning sessions (No. 3) in that it consists not only of the basic movements 'Y' and 'H', but also of movement 'X' which marks the sub-clauses. On the other hand, the tune is also similar to the "less enriched" targûm version of the šîrah (2a) in that it lacks a special 'F'. But its uniqueness is expressed by its new movement, 'Xi', which is the realization of the symbol of the mafsig type immediately preceding 'H'.

This tune, then, is "more revered" than the previous one in that it distinguishes between the special sub-clauses of the "heralding" clause and the other sub-clauses in the verse. The fifth degree concerns the 'sirah tune' (No. 3c) which consists of all of the five movements, 'X', 'Y', 'X1', 'H', and 'F'. The sixth degree of enrichment concerns tunes 4, 5 and 6, which do not have a special movement ('X1') for the realization of the mafsig preceding 'H'<sup>25</sup>, but, on the other hand, include, in addition to the four basic movements 'Y', 'H', 'F', and 'X', two new movements, 'P' and 'P1'. 'P' is the realization of the symbol tifhå which precedes the 'atnåhå, and 'P1' is the realization of the same symbol, tifhå, which precedes the söf påsug. Tunes 4, 5 and 6, then, distinguish between three kinds of sub-clauses: the penultimate ('P1') of the first part of the verse, the penultimate ('P1') of the second part of the verse, and all the other sub-clauses of the verse ('X').

According to the Yemenite concept, then, a "revered" tune consists of different movements which are greater in number than those of a "simple" tune, and which express syntactical parts much smaller than those expressed by a "simple" tune. This musical realization is a process of splitting large units, both musical and syntactical ones, into smaller parts; the 'direction' of this process is 'backwards' toward the beginning of each such unit.

(c) Considering the function of the musical movements in the organization of the entire musical phrase, we can point out two degrees of enrich-

<sup>25.</sup> Our sample-verse (Numbers 1, 1) does not include a symbol of the *mafsig* type preceding 'H'. But in other verses which do include such a symbol, it is chanted also as 'X'.

ment. The first one concerns tunes 1, 2, and 3, each of which is divided into two parts: (1) the closing part, sung on the two final clauses of the verse and consisting of the "heralding" movement 'H' followed by the final movement 'F'; and (2) the opening part, sung on the rest of the preceding clauses and consisting of a group of similar movements, 'Y', the number of which depends on the number of clauses. In other words, the performer builds the musical phrase on two groups of movements; the closing group 'HF' (or 'X-HXF'), and the opening one, 'Y' (or 'XY'). Sometimes, as in the 'sîrah tune' (No. 2a), this 'binary' form is further emphasized by the movement 'X1', which functions as a kind of additional "heralding" movement preparing the closing group of movements. The accomplishment of the performer's aim to express the entire verse as a complete musical unit, depends on his ability to count, at one glance, during his recitation, the number of symbols of the mac amid type preceding the last two mac amidim in that verse. Thus he can plan ahead the chanting of the first part of the verse according to the opening group of movements ('Y') and the closing part of the verse, i.e. the last two macamidim according to the closing group of movements.

The second degree of enrichment concerns tunes 4, 5, and 6, whose musical phrase is built on three groups of movements: the closing group 'HP<sub>1</sub>F' (or 'XHP<sub>1</sub>F'), the opening one 'Y' (or 'XY'), and the movements of the intermediate group 'PF' (or 'XPF'). The performer usually divides each one of these two tunes into four parts: (a) the closing part, which consists of the closing group of movements, and which is sung on the two final clauses of the verse; (b) the intermediate part which consists of the intermediate group of movements and which is sung on the clauses whose tacam is 'atnåhå; (c) the part which is sung on the clause (or clauses) preceding the intermediate part; and (d) the one which is sung on the clause (or clauses) preceding the closing part. The higher degree of this stage is expressed, then, not only through a richer repertory of movements, but also through the new formal organization of the musical phrase. The first three parts of tunes 4, 5, and 6 are organized in a new hierarchical order in which the symbol 'atnåhå receives its new meaning as a first-degree disjunctive, whereas in tunes 1, 2, and 3, 'atnåhå is a regular macamid, i.e. a second-degree disjunctive.

Chanting the 'tôrah tunes', the performer has to express the verse as a complete musical unit which, in most cases, consists of two sub-units. This expression depends on his ability to foresee, while chanting the first sub-unit (up to the 'atnāhā), whether there is at least one macāmid preceding

the söf påsug. If there is one, it is sung as 'H', and the 'atnåhå is sung as 'F' (or as 'M'). Thus we get a musical phrase of two sub-units (Ex. 1 and 2), the first of which ends on 'PF', and the second one ends on 'H', 'P', and 'F'.

If there is no additional  $ma^c \check{a}mi\underline{d}$  between the 'atnāḥā and the söf pāsug, the performer chants the 'atnāḥā according to movement 'H'; thus we get a musical phrase of a single unit, as in Ex. 3. In order to cope with this formal flexibility, the performer, before chanting a verse, examines carefully and quickly each part of it in order to decide which musical form to adopt. In comparison with tunes 1, 2, and 3, the performance of tunes 4, 5 and 6 requires a higher degree of both intellectual ability and musical skill on the part of the  $t\hat{o}rah$  reader. This requirement is a result of the fact that the Yemenites consider these ' $t\hat{o}rah$  tunes' "more revered and important" than the other three. A performance of the "revered" tunes requires greater attention to be focused on smaller parts of the verse and this implies the creation of a new hierarchical system within the larger hierarchy of the entire verse. The direction of this process is, again, "backwards" toward the beginning of the tune.

In conclusion, the musical effort of the *tôrah* reader is directed not only at remembering the right melodies, but also to maintaining the right proportions of the movements included in the various tunes. Thus, the musical realization of the *tecamîm* can be considered as a vehicle through which three Yemenite traditional aims are achieved: (a) the accurate accentuation of the words and the correct demonstration of the syntax of the verses; both features are the main contribution toward a better understanding of the meaning of the verses; (b) the distinction between the different textual sections as well as the various social contexts; (c) the distinction between simple and elaborate renditions of the tunes, a feature which expresses the cohesion of a congregation, indicates the status of boys versus that of adults, and, finally, symbolizes the differentiation between simple and esteemed social as well as liturgical events.

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EJ<sup>2</sup> Encyclopaedia Judaica, Jerusalem, 1971-72

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HUCA Hebrew Union College Annual

IMHM Institute of Microfilms of Hebrew Manuscripts,

Jewish National and University Library, Jerusalem

JA Journal asiatique

JJS Journal of Jewish Studies

JMRS Jewish Medieval and Renaissance Studies, ed. A.

Altmann, Cambridge, Mass., 1967

JNUL The Jewish National and University Library,

Jerusalem

JQR Jewish Quarterly Review

JRAS Journal of the Royal Asiatic Society

KS Kiryat Sefer; Bibliographical Quarterly of the JNUL

Lbm London, The British Library

Mbs

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