# THE ORIGINAL AFRICAN MBIRA?

by

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It may be possible to show, one day, that all the different mbiras<sup>1</sup> of Africa are iscended from one another, and that all stem from one particular type, which can then it assumed to be the form of the instrument as it was originally invented. I would like to present here some evidence to show that in one large part of Africa at least all the may types of mbiras can be traced back, with greater or lesser degrees of probability, to one type which must, at least, be very ancient, and at most, if connections with, or intribution to other mbira areas of Africa can be proved, may be the nearest we will to knowing the earliest form of the mbira in Africa.

The area comprises most of Rhodesia, central Mozambique, and southern and eastern Zembia, and parts of southern Malawi, southern Mozambique, and northern Transvaal, south Africa. Or, to put it more simply, much of the lower Zambezi valley, with a spill over towards the south (see map).

On first considering the bewildering variety of different types of mbiras played in this taking into account the different reed arrangements, methods of construction, tone calities and musical techniques, it is hard to find any consistent family relationships. Let if only one feature is taken as the main indicator, namely the arrangement of the lotes in the keyboard, which, as it appears, turns out to be a remarkably constant factor, reveral interesting and far-reaching relationships come to light.

I have always found African musicians in this area to be completely decided on the same of the type of mbira which they play, even though the general appearance, size, camber of reeds and other factors may have varied considerably from other mbiras of the same name. What is significant to them in the naming of a type of mbira is the samegement of the notes. This arrangement may be altered by the addition or the abtraction of a few notes, or more rarely by transposition of a note or two. But providing the core remains the same, so that the basic notes the player requires are where he expects them to be, it is, quite logically, considered to be the same instrument.

Starting from the 8-note kalimba, my candidate for "the original African mbira", it possible, by adding, removing or altering notes to a small extent only, to arrive at the spical core arrangement of all the mbiras in the area in question. I hope to show that it quite probable that this is what must have happened.

I am sure that if I had not learned to play many of the mbiras described here, this met link between all of them would not have suggested itself to me. When you have mbira in your hands and you find your fingers moving in the same way as on another and of mbira you say to yourself: "That's funny", and it goes on from there...

## The north bank kalimba

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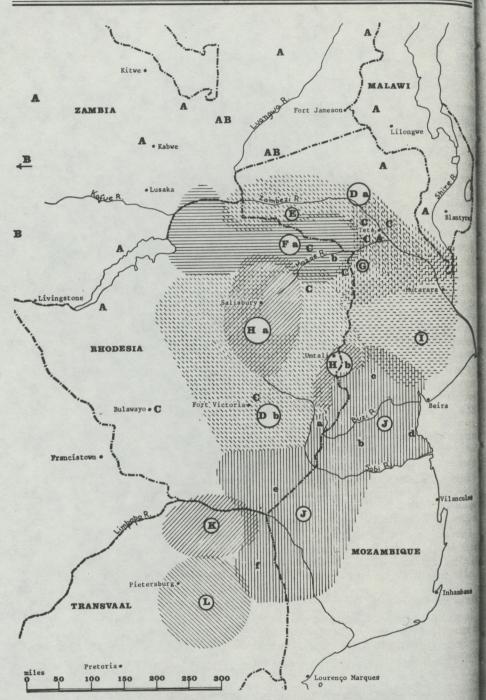
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In whatever part of the Zambezi valley the ancient kalimba may have been played, present distribution, as can be seen on the map, includes parts of central Mozambique, touthern Malawi and southern and eastern Zambia, i.e. mostly to the north of the Zambezi.

The mbira is the small plucked-reed instrument held between the hands and played with the thumbs and/or forefingers. Uusally termed 'sansa', another recent contender for the generic name is 'lamellophone'. See for instance Hugh Tracey 1961; Gerhard 1965; and, with particular reference to the present article, Hugh Tracey 1969, which gives photographs of many of the



The distribution of some of the descendants of the kalimba.

A KALIMBA TYPE

Marke, Cewa, Ngoni, Tumbuka, Nsenga, Swaka, Kaonde, etc. Also called kankobele, kankowela (Esa, Lela, Lenje), nsansi, sansi (Cewa, Ngoni, Nyungwe). Possibly also Tonga kankobela and Landa kalendi.

NDIMBA TYPE

ege, also called ndandi (Lala), kangombio (Lozi), kathandi (Mbunda).

we, Chikunda, Sena/Tonga, Korekore, Zezuru, Karanga. Also called kasansi, chisansi, nsansi, abanzhe ye psviro (Nyungwe).

Walley type. Nyungwe, Sena/Tonga.

Highland type. Njanja (knows as marimba), Karanga, Hera, Bocha, Garwe, Manyika, Zezuru, Natve, Shangwe, etc. Sometimes known as njari dza maNjanja, from the Njanja, its introducers. An called deza, probably the njari type, has been recorded among the Valley Tonga.

NJARI HURU Orlanda

Korekore, Tavara, Nyungwe.
 Matepe (Sena/Tonga), madhebhe (Korekore/Budya).

G MANA EMBUDZI

Im/Tonga, Nyungwe, Sena. Also called mbira dza vaTonga, nsansi, sansi.

**H MBIRA DZA VADZIMU** 

A Zezuru, formerly also played by the Karanga (mbira dze midzimu).

M Mbira huru, matepe, very few survivors of the Manyika type.

INYONGANYONGA

we, Gorongozi, Sena. Also called marimba.

MBIRA DZA VANDAU
MHighland, or Tomboji. (b) Danda. (c) Utee. (d) Mashanga. (e) Hlengwe (called timbila). (f) Shangana (alled mbira, marimba, timbila).

MBILA DEZA

lemba, Venda. Four types - scale regular/irregular, bass left/right?

L DIPILA

Northern Sotho.

This map should be taken only as indication of what type of mbira is most likely to be found in any
There are few hard and fast boundary lines. Individual examples of mbiras are often found far note are few hard and tast boundary lines. Individual examples of mbiras are often found far on the areas marked. The most distinct boundaries are those between language groups, such as Shona Seni (njari to mana embudzi, nyonganyonga) or Shona to Ndau (njari, mbira dza vadzimu to mbira vaNdau). There is also a certain amount of speculation involved; where I have no personal experience to boundaries I have assumed that they continue along the lines of the language division, as in thell and Fortune's map "African tribes and languages of the Federation of Rhodesia and Nyasa-lin, Director of Federal Surveys, Salisbury 1964.

La Datticular I do not know the exact boundaries of the Venda and Pedi types (K. I.), the southern

he particular I do not know the exact boundaries of the Venda and Pedi types (K, L), the southern boundary of the mbira dza vaNdau type (J), the western boundary of the hera (F), whether the valley per of njari is played by all the Nyungwe and Chikunda peoples, as I have shown, and the mutual sundaries of the njari, mana embudzi and nyonganyonga (D a, G, I,) which are not very clear on the sound – in this area it is quite common to find up to three different types being played in the same often with a shared repertoire, although not necessarily playing together. The karimba (C) turns up sporadically over a large area; I have only marked those where it seems be widely popular. The C at Bulawayo refers to the type of karimba made and taught there at the avenongoma College of African Music, which was originally based on a karimba from Mrewa district, miles east of Salisbury. (See Fig. 2b).
Finally, as my information from Zambia and Malawi is largely from secondary sources I have only one symbol in at the approximate centre of each language area. The kalimba area to the north of the lambezi is probably much more extensive than shown.

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Fig. 1. The basic kalimba core.

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This is the instrument with a minimum of eight reeds, tuned as shown in Fig. 1. Frequently there are extra reeds added to form an upper rank, as for instance in Figs. 2 and b. That there are many ways of adding extra reeds attests the basic nature of the 8-reed core, which remains unaltered and plainly visible in the lower rank.

Note the typical tuning plan of the kalimba, as this is what we shall have to the through the other types of mbira – on the left, three consecutive notes and a sixth below, on the right, three consecutive notes again, following down from the three on the left and a fifth below.

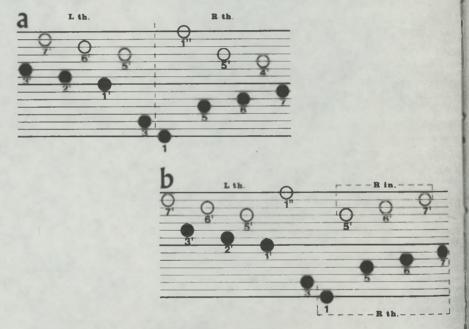
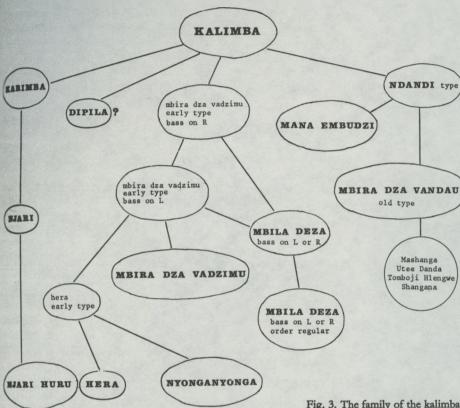


Fig. 2. (a) Nsenga kalimba (Blacking). (b) Zezuru karimba, Mrewa district.

The basic kalimba core is shown by the black notes.

The numbering system uses the numbers one to seven to indicate the seven notes of the heptatonic scales in use in the area. It can be seen at a glance, for instance, which notes are octaves, unisons, etc. Any two notes with the same number are unisons, or the octave marks are different, octaves (1, 1', 1"). The same numbering system is carried through all the mbira diagrams. It is not intended to show tonal importance but the facilitate comparison between the different mbira layouts.

I regret that the choice of axes in some of the diagrams is bound to distort the actual angles of the rows of reeds on the mbiras, and secondly that some of the ranks of reeds



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Fig. 3. The family of the kalimba.

spear to be crooked when on the mbira they are straight, again due to the demands of me method chosen. Mbira reeds have length as well as pitch, and I have chosen to concentrate on the latter. However, it is fortunate that on the mbira the two coincide to such an extent that a pitch diagram can also serve as an almost accurate "picture" of the instrument's keyboard.

There are many tunings in use, but, important though they are in considering the music itself, a discussion of these would not add significantly to the present argument. Inning plans can be followed relatively unchanged from instrument to instrument and place to place; the actual tuning, however, will often change, even on the same type of astrument, from language group to language group, and tell us more about a people's preferences than about the history of their instrument.

You may ask how the basic kalimba can be considered heptatonic when on its own widence there are only six different notes, with the octaves of two of them. Of course is impossible to know how the music sounded on the first kalimbas. It is quite likely that it was hexatonic. Evidence for this may exist in the stratum of hexatonic music which found among many of the Shona and Sena peoples, exemplified in such types of music the threshing songs, and, of course, in the present day Ndau mbira, one of the descendants of the kalimba, which is entirely hexatonic, as is the singing which it companies. As the kalimba is played today, however, the music is usually, though not ways, heptatonic, depending on the tune in question. When extra reeds are added to talimba a seventh note nearly always appears. This is numbered 4 in the present

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system, because of its position. Even in cases where it does not appear on the instrumenthis note 4 can often be heard in the singing.

### The family of the kalimba

Fig. 3 is a tentative table of the relationships of the kalimba and its descendants. No time scale is implied, only a sequence of developments that must have followed this order. The njari huru and hera are placed near each other to show their physical similarity, probably developed from their geographical proximity (E and F a on the map).

#### The south bank karimba

Unlike the kalimba types on the north bank, which are small, with few notes (normally less than 15), the mbira known as karimba (the same word, spoken by a different language group) on the south bank has undergone a certain expansion, frequently to 20 or more reeds.

Here a brief digression into the matter of chronology. I have assumed, not without justification I hope, that of two examples of a particular type of artifact, the more complex can usually be considered the later. In this particular case, where 15 or more types of mbiras seem to share a common feature, that is, relationship with a certain tuning plan, the instrument that shows this tuning plan in its simplest form can safely be assumed to be the oldest. This is why I say that the south bank karimba, and in fact all the other types to be discussed here, are expanded versions of the 8-reed kalimba and not the other way around.

The principles by which extra reeds have been added to the karimba are similar to those which we shall find in the expansion of the other types of mbira. It should not be thought that notes are added haphazardly, but with a view to expanding the expression of the instrument in terms of Shona musical principles.

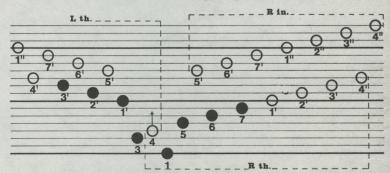


Fig. 4. South bank karimba.

(a) Sections of the layout may be extended by the addition of consecutive notes of the scale upwards and outwards. In Fig. 4 this can be seen on both sides.

(b) A new rank of notes may be created, either an octave up or down from the rank, arranged so that all the respective octave reeds are next to each other. This can be seen on the right of Fig. 4 – a new rank an octave above the original 5, 6, 7 part of the kalimba core.

(c) A section of the layout on one side may be duplicated note for note on the other side. This is the top left rank in Fig. 4.

Note that all these methods of adding to an existing layout are regular, in terms of the successive order of notes in the scale. The only irregularities are those inherent in the original layout, which is preserved at the centre of the new one.

An interesting question is posed by note 4 in Fig. 4. Obviously, since a note of the

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the was required, a new place had to be found to fit it. The answer here in the case of harimba was in between the two lowest notes. Being shorter, however, the tip of the red would be inaccessible if the reed were mounted in the same plane as its two suppliers, so it is always bent upwards in the manner of the upper rank, although it and part of it. The answer in the case of the mbira dza vadzimu and the njari was been the same plane as its two suppliers.

This anomalous position of the fourth degree of the scale in several types of mbira one of my first clues to this particular investigation. On the karimba, it plainly like an interloper.

At this point again two families diverge, that of the mbira dza vadzimu and its boundants, and of the njari.

The mbira dza vadzimu family

This mbira (Fig. 5), although to the eye nothing like a kalimba at all, has so many movergences with it that it is the only one of the mbira family of which it can be said with complete certainty that it descends directly from the kalimba.

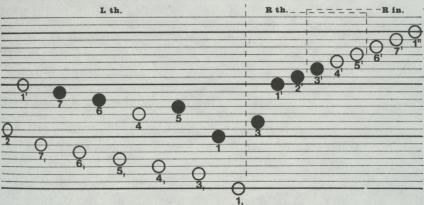


Fig. 5. Mbira dza vadzimu. The kalimba core is shown in black.

Of the three ranks of reeds on the instrument, the lowest and highest are regular in rule order, but the middle pitched one, the upper left rank, is not. It can soon be seen from the numbering that this order is identical to that of the right hand of the karimba one, but with the fourth degree of the scale added at a different place from that chosen a the south bank karimba. If there is any doubt about this, it should be dispelled on boting at the other side of the keyboard – a long run of successive notes of the scale, followed by one low note, a sixth down. This is identical to the kalimba left hand. The notes of the kalimba core are marked in black.

So at the centre of the mbira dza vadzimu there is a kalimbal The intriguing difference that the layout has been reversed left to right. This is discussed below.

A certain degree of musical corroboration can be found in the fact that learners at the present day are very often taught simple condensed versions of the tune, using varially only those notes that belong to the kalimba core, i.e. from the bottom, 1, 3, 4, 5, 6, 7, 1' (right), 2', 3'. The exact notes used depend, of course, on the tune being stand. The greater the facility and experience of the player, the further outwards from the core does he go.

To bring the number of reeds up to a standard 22 (some have more), (1) the three notes of the kalimba L hand have been extended upwards by five notes; (2) the lamba R hand has two additions, one note extra at the top (1'), and that intrusive 4th

note, from its out-of-order position again looking like an intruder; (3) a new rank of notes has been created below the kalimba R hand this time. Note again that the order of notes in this new low rank is regular, though containing gaps. A place had to be found for instance, for note 2, missing in the kalimba core (although present in the upper octave, 2'). This has been put at the outer end of the new low rank. According to Mauch's detailed drawing<sup>2</sup> and a few ancient specimens I have seen myself, note 3 and sometimes notes 6 and 7 were also added outside note 2.

The highly irregular order of the notes 7,, 1, 2, 3, 4, 5 seems to attest the fact again that the makers of the mbira dza vadzimu were handed down something very irregular on which to build. Where they were free to add new notes as they pleased it was always in regular order, as in the new low rank and the extension of the high rank, even if the meant that in order to play the octaves some were adjacent, and for some you had a

cross (e.g. notes 4 and 4,, and 5 and 5,).

Why the intrusive note 4 found its particular position is hard to say. Given the regularity of the other additions, one would have expected it to be on the right, rather than on the left of note 5. One could guess that the note had already been put there is early extended models of the karimba which no longer exist, and that mbira dza vadzim makers copied this model. Or there may possibly be a musical reason, in that this note and note 1 are the two main tone centres in the music. It would thus be more convenient, when playing music built around note 4, to have it in a central position. But neither of these suggestions has much weight.

As regards the left-right reversal, here was one of those situations when a piece of evidence formerly without a home suddenly clicked into place and completed the picture. This was that the mbila deza of the Venda, an instrument almost identical to the mbira dza vadzimu, is very often found left-right reversed, "left-handed" as it wend It thus preserves the original kalimba handedness. I know of no other type of mbin, certainly not in the area we are concerned with, which has 'left' and 'right' handed

versions.

The Venda are related to the Shona. The ruling clans, it is estimated, separated about 300 years ago, the others earlier. The change-over must have happened before the departure, probably a long time before, in view of all the developments that grew out of the new "bass-on-left" instrument, i.e. the hera and nyonganyonga, with their wide

geographical expansion. All of this must have taken a great deal of time.

What could have accounted for this change-over? While it could, of course, have been an historical accident, which could include a decree of some kind, an avoidance, or the result of a famous player, perhaps left-handed, being associated with the instrument, a should also be remembered that in the case of our third family, that of the ndimbanana embudzi and mbira dza vaNdau, the notes are always organised with bass learned treble right. Further, among the xylophone playing peoples who live around the edge of our mbira area, the Lozi, Sena, Mashanga, Tswa, Chopi and Venda, the bass almost universally on the left. What the musical, psychological or historical reasons for this may be I do not know, but there must be one to account for this unanimity. It may reach into right-left/male-female symbolism, but I can find nothing definite to work on. When groups of notes on mbiras are named so as to indicate gender, as they sometimes are, the high notes are termed female, in contrast to what might be expected if the left, or deep side was associated with female. A few Chopi musicians play left handed, some by sitting at the other side of a normal instrument, some on specially constructed instruments, but this may amount to about 4 per cent only of players, and can be shown to be a result of physical left-handedness.

<sup>&</sup>lt;sup>8</sup> Carl Mauch 1969.

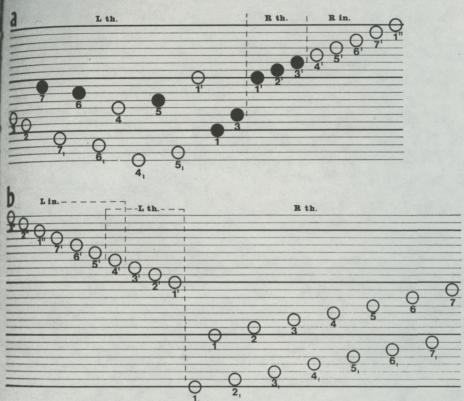


Fig. 6. (a) Mbila deza, older type (Kirby). (b) Mbila deza, left-handed, regular scale type.

One more note about the mbila deza. With its long history and relative isolation from the central Shona it has not been immune to developments of its own. A number of the ming plans exist, some of them reflecting the mbira dza vadzimu exactly; others where two main irregularities inherited from their kalimba ancestor have been straightened (1) the order of notes in the two low ranks is regularised and, (2) the singleton low belonging to the kalimba L hand is dropped. Fig. 6 shows examples of both types. While deza players must forgive me for naming the family by the probably junior name the mbira dza vadzimu. This is simply because I have not yet done enough work on the mbila deza.

# The hera or matepe

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ecially s, and To digress briefly from reeds and tuning plans into social usage... The mbira dza vadzimu and hera (or matepe) are unique among mbiras in Africa in that they are used amost exclusively for religious purposes, primarily for making contact with the vadzimu, he ancestor spirits. The name itself, "mbira of the spirits", indicates the importance of a function to the Zezuru people. The hera, originating with the Korekore, but also have by the Tavara, Sena/Tonga and Nyungwe, also belongs to the spirits, more pecifically the tribal or chief's spirits called mhondoro. The complete repertoire of the area dza vadzimu, as far as I know, is dedicated to the vadzimu, while on the hera the pear majority is so devoted.

The njari and south bank karimba should not be left out here, as they can also played for ritual purposes. In fact where the njari has usurped the mbira dza vadzimi place in Rhodesia it has also taken over its religious function. But there is little or i feeling of 'dedication' with these, and they may play equally for secular purposes, for vadzimu or even for the mashave independent souls.

The similarity between mbira dza vadzimu and hera extends even to some of the tunes themselves. I have heard hera players saying words to the effect that "This tune the same as x tune (some standard tune of the mbira dza vadzimu)". Even if the connection is not consciously known by the players, musical analysis reveals it to be their The absolute pitch of the two mbiras is also very similar, although the mbira dza vadzimu shows more variation in this than does the hera.

Further, the Korekore and Zezuru, together with the Manyika and Karanga (wh formerly played the mbira dza vadzimu) are closely related members of the Shor language group, bound not only by language but also by their common history passage through the period of the Zimbabwe and Monomotapa kingdoms. Given the political importance of spirit mediums, at present diminished or dormant, but traditionally great, and the central position occupied in their rites by the mbira, we may guess at the importance of the mbira during those periods.

It is my guess that it was during the Monomotapa period that the development the hera took place, starting from the already existing mbira dza vadzimu. This, however, may not have been in its present-day form, but may still have been without it lower left rank. As we shall see, only the upper left rank was transferred to the hera.

To return to the tuning plan, it is the irregularities which always attract attention. To take the left side of the hera first, it can be seen that the (irregular) order of the finds in notes in the upper rank, including the three index finger reeds (see Fig. 7) is identicated to that of the upper left rank of the mbira dza vadzimu. On the right side, if one ignore for the moment the two upper rank reeds, there is the same regular scale, starting at the same relative position (on note 1).

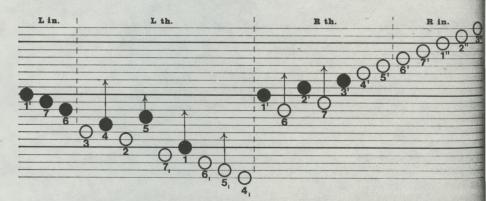


Fig. 7. Hera. The black notes show the resemblance with the mbira dza vadzimu.

Notes with arrows are bent to form an upper rank.

When considering the additions, six notes on the left and four on the right, it interesting to note that the tonal function of the reeds has altered between mbira de vadzimu and hera. Whereas on the mbira dza vadzimu the reeds numbered 1 and 4 at the main tonal centres, this function is taken over on the hera primarily by 4 and (note always a fourth apart). Which came first, the change in tonal function or the extra

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is makes sense for instance in the R hand to add an extra low 7, and in the L hand

The additions in this case, however, might be better considered from the point of the music played on the hera<sup>3</sup>. It seems to be important that each active playing ica (except the L index, which has a different function) have at least seven notes, one less of every note in the scale. Seven-note sections or playing areas are found in an of the mbiras under discussion, e.g. the mbila deza, the njari, the nyonganyonga, This would account for the two bent-up low notes in the R hand, which would me the R thumb the same seven notes as the L thumb, which originally probably had beven, down as far as note 6,.

Evidence for this is that the next member of the family, the nyonganyonga, duplithe hera's L thumb notes, but only down as far as note 6. It therefore seems by that the original hera was the same, with only seven notes for the L thumb.

Ve still have to account for the differences between the L hands of the hera and the dia dza vadzimu. First it has to be assumed that someone began to play the three ride left reeds on the original mbira dza vadzimu with his left index finger. Although tenndard present-day instrument is never played in this way this is not too much to me, viz., the diagram of a Karanga mbira dze midzimu drawn by Mauch in 18724 a photograph of a similar instrument taken by Hugh Tracey in 19325, in both of I think it likely that the two outside left reeds were played with the L index. I also recently discovered some ancient survivors of the Manyika mbira dza vadzimu those extreme left hand reeds, although not necessarily the three in question, show widence of having been played from below. In most of these cases the tuning was so through years of disuse and unwillingness on the part of the owners to disturb forefathers' tuning that it was hard to know which L hand notes were which. But important linguistic clue also came up in connection with these ancient instruments — to owners knew them firstly as "mbira", but if questioned as to what type, they replied bin huru" or "matepe"! This is the same name as that used at the present day for the by the Korekore/Budya people (madhebhe) and the Sena/Tonga people (matepe). So, if the three outside reeds are plucked with the L index finger, the thumb is left

only three, and needs four extra notes to make up its minimum of seven. As can seen, these four have been added in a lower rank in as near a regular order as possible. Ind 2 to fill the gap between 4 and 1, and 7, and 6, to complete the seven notes (5, and 6 being later additions as we have suggested above).

In the R hand, the two bent-up low notes have already been mentioned. Obviously in arrivals, two is the standard figure, but three or four are also found, that is down note 5 or 4.

The R hand rank in the basic hera is extended upwards to note 3". There are several reations for this end of the scale in different parts of the hera country, for instance at that this rank goes up to note 5", and in east Darwin there is an extra bent-up rank counting at least of notes 2", 3", 4" and 5". There are other variations too, both on left and right.

Finally, the singleton low 3, found in the mbira dza vadzimu (R hand) and the mba (L hand), has been dropped. My impression of this is that once you have music intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres, a single note in a rank all intensive chordal feeling and a variety of tonal centres in the rank all intensive chordal feeling and a variety of tonal centres in the rank all intensive chordal feeling and a variety of tonal centres in the rank all intensive chordal feeling and a variety of tonal centres in the rank all intensive chordal feeling and a variety of tonal centres in the rank all intensive chordal feeling and a variety of tonal centres in the rank all intensive chordal feeling and a variety of tonal centres in the rank all intensive chordal feeling and a variety of tonal centres in the rank all intensive ch

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according to the principles of Shona harmony. Most Shona mbira music uses a succession of six, if not all seven diatonic chords available. In music of simple, unvaryationality, such as on the kalimba, this factor is unimportant, and note 3 can be put a good rhythmic advantage.

It is already an anachronism, to a certain extent, on the mbira dza vadzimu. Although this needs more investigation, it seems to me that the note is extensively used only tunes centred around the tonality of note 1, such as "Nyamaropa" and "Taireya".

The solution would be either to drop this single-note rank altogether, or to develop it into a usable rank of at least three notes or more. The first solution was adopted the hera and some types of the mbila deza, as already mentioned; the second, as we shall see, by the njari.

To conclude this discussion of the hera, although it cannot be said with such assurant that "at the centre of the hera there is an mbira dza vadzimu", by thus marshalling at the pieces of evidence, quite a strong case can be made for it.

The nyonganyonga

The first thing to remark about the nyonganyonga (Fig. 8) is that it looks end like the hera with the L hand reeds halved in length and the R hand reeds double Comparison of the note order confirms this – exactly the same irregular order in the lupper rank as we first saw on the mbira dza vadzimu, but at a higher absolute pind and the same long regular scale in the R hand starting on note 1', but two octaves dou (1,). The bass notes are therefore now in the R hand.

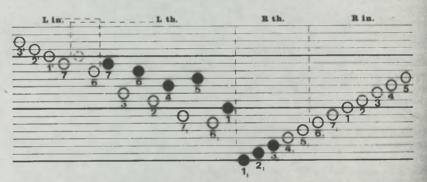


Fig. 8. Nyonganyonga. The dotted note is found occasionally in larger instruments.

The three notes 1', 7 and 6 in the Lupper rank that were taken over by the Linder of the hera are back to the thumb here, just as in the original mbira dza vadzimu. Instead of these, a whole new rank of five notes has been created for the left index (occasional six or seven). As might be expected with this potential, the left index has more extend parts to play than on the hera, although its function otherwise remains similar, provide harmonic support at the octave for the L thumb, and rhythmic contrast again both hands.

I have only one positive piece of evidence as to what may have given rise to cotave-change effect in the nyonganyonga, and that is a single example belonging Dzingo, an old Sena musician at Chiromo, southern Malawi, whom I met in 1971. Instrument resembled a standard nyonganyonga on the left, but on the right there we two ranks, interspaced in the usual way, but two octaves apart. The upper rank shows

<sup>&</sup>lt;sup>4</sup> These tunes can be seen in Andrew Tracey 1970/2.

usual left-right pitch relationship of the hera, and the lower rank that of the meanyonga. I noticed that the overtones of the reeds in the lower rank were tuned, were in unison with the notes of the upper rank.

Here mention should be made of the acoustical properties of mbira reeds, especially by are made in the lower Zambezi valley area. Whereas the mbira dza vadzimu, did deza and njari of the highlands are made with broad, heavy reeds, the mbiras of valley, including the karimba, hera, nyonganyonga, lowland njari and mana embudzi thin, narrow, tapering reeds whose overtones sound much louder in relation to fundamental. This fact is often used to positive effect in tuning. Instead of tuning two-called "big" or "deep" notes to their almost inaudible fundamental, the overtone chosen as the significant tuning note. As the first overtone of an mbira reed is approximally two octaves up from the fundamental, this causes the sound of the "deep" notes intermingle at the same pitch with other, higher ranks on the instrument, an effect parently much desired by musicians in this part of Africa?

To return to the nyonganyonga, if some maker had started with a rather high-pitched m, or hera type, and decided to obtain the pitches of the R hand scale via the overgof a rank of longer reeds, instead of in the usual way, this would account suffi-

conty for the octave-change effect.

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While in Malawi I also came across an old, small example of a Sena nyonganyonga in a private collection (Fig. 9). It was almost the size of a kalimba, but otherwise just mother example of an "apparently haphazard" African tuning. It was the hallmark of tuning, however, which enabled me to link it up, via hundreds of miles and modreds of years of experimentation and improvement on the part of African musicus, with the other members of its distantly spread family.

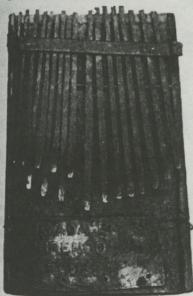
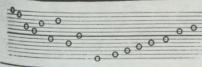


Fig. 9. Old Sena nyonganyonga, Malawi. (Van Zanten).



There are also other ways of achieving this same effect. See Andrew Tracey 1970/1 and 1969.

The njari

Two isolated incidents opened my eyes to the possibility of the njari being another branch of the kalimba family. One was at Chioco, in Tete district, when I happened play back a previous recording of Lazaro Vinho, the famous blind Nyungwe in player from Mandie. The hera player I was recording remarked with scorn, "Oh the kalimba player!" Many hera players are convinced of the superiority of their type in mbira! Now this may merely have meant that the njari was as worthy of derision as relatively small and insignificant kalimba, or, on the other hand, it could have me

that the njari was a kind of kalimba.

The other incident happened near Fort Victoria, Rhodesia, while recording Sima Mashoko, the equally famous Karanga njari player. I had with me a karimba of the type I had been learning, from Mrewa district near Salisbury (see Fig. 2b). Unsating with the lack of two notes at the bottom (2 and 4), I had added them in, in the plan that seemed most obvious to me, i.e. note 2 went between 1 and 3, and note 4 between 1 and 5. I had also added notes 1', 2' and 3' to the R hand lower rank, to duplicate the in the L hand, as I had seen done on other, larger karimbas, and an extra note 4' in the R upper rank, next to its octave in the lower rank. Mashoko picked up the mbassuming it was an njari, and began to play it in njari style, with njari fingering, up both indexes, without even stopping to test the pitches of the reeds first. If my karing can be both a karimba and an njari, I thought, according to the way it is fingered, the two must be rather closely related.

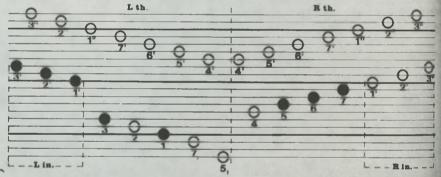


Fig. 10. Njari, highland type. Not all are as full as this, especially in the upper ranks. This diagram also serve for the valley type, which sometimes adds more notes downwards in the L index, and thumb lower rank, and notes 2 and 3 in the R lower thumb rank, bent up as in the njari hum.

The kalimba core can, in fact, be found easily in the njari (Fig. 10). The missing note 4 has found yet a third place (cf. the karimba and the mbira dza vadzimu), this in regular order below note 5; note 1 is now played by the L hand, and note 2 appealogically enough, between 1 and 3. Then this rather small rank has been extended or wards, always by at least one note (7,), more often by two (7, with 6, or 5,). As with karimba, the lower R rank is extended up to note 3', the additions being played the index. The upper ranks are virtually identical to the karimba, except that note is added at the centre, instead of at the outside of the lower ranks, in order to be adjust to its lower octave. A further link with the karimba is that a few players whom I be seen pluck the L index reeds with their thumb, others with thumb or index, according to the tune.

There are many variations on the njari tuning plan, but I have never seen one does not have at least two notes in the L index, four in the L lower thumb, seven in R lower rank, and about four in the L upper thumb.

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Fig. 11. Njari huru. The notes with arrows are bent up slightly.

The major sub-type of the njari, the njari huru, can be seen in Fig. 11, a considerably chirged instrument, which however still keeps the basic structure of an njari. Notes 2 and 3 in the R hand, duplicates of the L hand, are additions, and as if to show it, they we bent up slightly in a way that is reminiscent of the hera, which also has two "added" test at the bottom of its R hand rank. In this and other ways, such as performance exchange and construction, the njari huru and the hera show similarities that must have arisen from their development over a long period in close proximity, with the terraction of the Chikunda and Korekore peoples. In fact, on first sight, the njari huru topears to be merely a variant of the hera, with its L hand rank straightened out into regular scale order. Some njari hurus have no upper L rank, which increases the like-test further. The internal structure of the notes shows, however, that the two mbiras, whough so similar in sound and looks, have reached this stage along entirely different test, even including, in the case of the hera, a left-right reversal of the keyboard.

The ndimba family

This family differs from the others in that most of the reeds are arranged with the notes on the left, sloping diagonally upwards to the high notes on the right, i.e. mething in the manner of a western keyboard instrument. Thus the inherent irreguof the kalimba, which has been our guide, is largely destroyed. My argument for inclusion in the kalimba family on the basis of their tuning plans rests mainly on pieces of evidence. One is that in the ndimba itself, as played by the Lala, Nsenga, and others in Zambia, the arrangement of the notes leads one to think that they the very notes of a kalimba, rearranged, for the most part, in L-R scale order. sother is that the interval of a third between the two lowest notes, as on the kalimba, found in all the members of the family. A slight piece of evidence, to be sure, but it is Less an idiosyncracy that can be traced. The instruments are constructed in an identical ion to the other members of the kalimba family; they are played by members of the me or closely related language groups, often with the same repertoire. On this basis they could be included in the family, but without the specific link to the kalimba. If we now look at the ndimba, it is obvious, in the first place, that the actual pitches are those of the kalimba (compare Fig. 12 with Fig. 1) . . . the two gaps at the octom of the scale, the halt in the scale at note 3', the 4' finding an irregular place, and bele going on up on both sides. Among the Nsenga this instrument is the professional's

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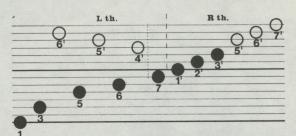


Fig. 12. Ndimba (Blacking). Notes 4' 5' and 6' in the L hand are often spaced one note further to the left.

version of the kalimba, which is played mostly by younger, amateur musicians. It seems entirely probable that the ndimba results from a deliberate change-over from the kalimba. It is worth noting here that the silimba xylophone of the Lozi has almost the same tuning plan as the ndimba, usually, but not always, with two gaps at the bottom of the scale (1-3, 3-5), which then goes up regularly from there.

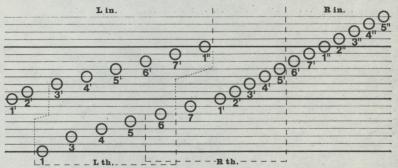


Fig. 13. Mana embudzi. The small dotted lines indicate that some players play notes 3' to 1" in the upper rank with the index, some with the thumb.

I have no specific evidence to connect the mana embudzi (= goat's teeth!) with the ndimba. The tuning plan (Fig. 13) shows an arrangement regular in all respects except for the gap of a third at the bottom. Given the tuning plan of the ndimba, and some of the developmental principles we have already seen in operation with the other members of the kalimba family, it is certainly not unlikely that one could have come from the other.

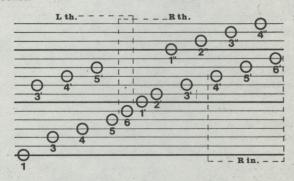


Fig. 14. An early type of mbira dza vaNdau.

<sup>8</sup> Blacking, 1961.

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Similarly with the mbira dza vaNdau - I would suggest an original hexatonic version the ndimba, i.e. before the note 4' was added to either ndimba or kalimba, from which both ndimba and mbira dza vaNdau subsequently developed. Fig. 14 shows the implest version of the mbira dza vaNdau I have been able to find, compiled from three ary similar examples, all old, two from Melsetter district and one a Hlengwe timbila from Chibi district. Allowing for the difference in my numbering, a technicality only moduced by the extra note added in the ndimba between notes 3 and 4 of the hexamic scale, which means that the notes above the new one have to be renumbered, it on be seen that the scales are nearly identical. Added to this is the extra evidence, not raible in these schematic diagrams, of the actual tuning of the notes: 1, 2, 3, 4, 5, 6 of the early type Ndau mbira scale actually sound identical to 1, 2, 3, 5, 6, 7 of the atimba heptatonic scale. The important interval to look for is that between 3 and 4 of hexatonic scale, which was large enough, in these early mbiras, to insert another note, although the Ndau did not follow the example of the kalimba and ndimba in this espect. Ndau tuning, as can be heard in most other Ndau mbiras, is nowadays rather Effect; this interval is usually smaller. Note 3 of their scale now takes on the double function of substituting for note 3 of a Shona heptatonic scale, when they play a Shona song, and note 4 of the western scale, when they play "guitar" songs with I-IV-V harmonies.

To complete the comparison of the early mbira dza vaNdau with the ndimba let us needy note first the close pitch resemblance of the L hand upper ranks, and secondly the "separation" in both instruments of the right hand three notes of the lower rank. In the ndimba we know that these three notes formed a separate rank in the original talimba, and in the mbira dza vaNdau these are the R index notes.

This similarity in mbira tuning plans between such widely separated peoples as the Ndau, Nsenga, Lozi, etc. could lead to all sorts of speculation. However, the picture is alightly simplified by the concept of the central development of the kalimba.

To deal briefly with the remaining members of the mbira dza vaNdau family of which lave experience, one of the remarkable things about this family is the relative lack of tandards, either in note arrangement or in accuracy of tuning. However, having observed a large number of Ndau mbiras, I have abstracted three major types, all laked, as can be seen, by their close relationship to the "early type."

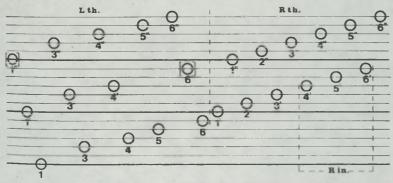


Fig. 15. Mbira dza vaNdau, Tomboji type. The bracketed notes may be omitted.

The old Tomboji or highland type, found around the Rhodesia/Mozambique border to the south of Umtali, is nowadays played mostly by the older generation, as the rounger musicians have all adopted the Danda type. A third, upper rank appears in the

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L hand (Fig. 15), and the notes 6 and 2' are preserved in the lower rank, which is a keeping with the more "Shona" sound of the music played on this type.

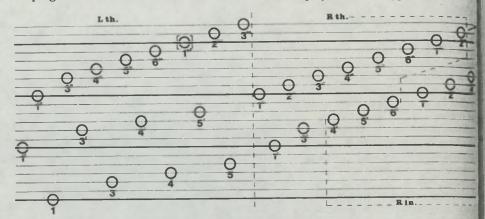


Fig. 16. Mbira dza vaNdau, Danda type.

The Danda type (Fig. 16), today by far the predominant, is an extension of this older type. Apart from extending all three ranks to the right, the most significant difference is in dropping the notes 6 and 2′, just mentioned above, which gives the lower voices a strongly tetratonic sound, which contrasts with the small intervals of the upper voice, especially the unusually small intervals between 2″ and 1″, 1″ and 6′ in the lower rank. Emphasis on these notes gives the typical "Danda" sound, which is immediately recognisable to the Ndau. L hand note 1″ is bracketed to indicate that it is quite often omitted. I cannot go into the reasons here except to note that the interval left, 6″ to 2″, is still something like an "Ndau whole tone", and perfectly usable.

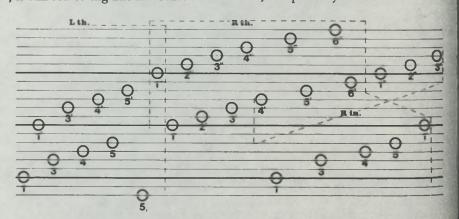


Fig. 17. Mbira dza vaNdau, Utee type. (The Utee are known to outsiders as Teve).

The Utee type (Fig. 17), of which they say "Dzakati tefatefa ino ne ino" – it is soft both sides, meaning that it has soft, flexible deep notes on both sides, is similar to be previous two types, except that it adds a rank below rather than above. It also has be "Danda" notes 1", 2" and 3" for the R index.

The other southern types of mbira dza vaNdau are essentially similar to these, shough I have not yet had the opportunity to study them closely, or even establish that the types may be.

This leaves us with only one mbira left to discuss, the dipila of the Pedi. I can say little about this, except to present the tuning plan of a typical example (Fig. 18), draw the reader's attention to the central nine notes, marked in black, which are drowledged by dipila players to be the basic form of the instrument. Although this a pentatonic instrument, the resemblance of the pattern of black notes with that of ralimba core is evident. To all intents and purposes it looks like a direct transposition of the kalimba into a pentatonic framework. This observation, however, will need

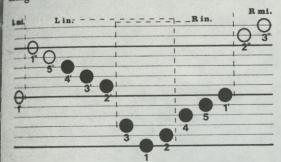


Fig. 18. Dipila.

We do know, nevertheless, that the Pedi have borrowed the heptatonic tshikona med-pipe dance from their neighbours, the Venda, and adapted it to their pentatonic mem, so if this process happened once, it may well have happened twice.

An interesting point about the dipila is that it is one of the very few mbiras in Africa is not normally played with the thumbs. It is as if the instrument had arrived without knowledge of its technique accompanying it, and the local people had worked out own way of tuning and playing it. Something similar has been said to have appened in west Africa, with the big box mbiras travelling along the coast by sea, accompanied by their players.

## Conclusion

The origin of the mbira has long been a tantalising question. As (almost) the only artument unique to Africa, the only opinion as to its ultimate origin seems to be that A. M. Jones, who believes it to be a portative version of the xylophone. I have no redence on this point, except perhaps negative, in that in the case of the few peoples southern Africa with whom I am acquainted who know both the mbira and the rephone, in only one case, the Lozi, already mentioned, do they seem to be related to each other.

The Venda would be the only other possible case: the mbila deza in Fig. 6b is tuned to that note 1 is 284 v.p.s. When the tshikona reed-pipe dance music is played on the bila deza this note becomes Pala, the same word that is used to indicate "keynote" on venda xylophone and the set of reed-pipes. This pitch is also practically the same those given for Pala on the xylophone by Jones 10. But the resemblance between and xylophone must end there. That they can play the same music, at the same such, does not make the instruments related, and, in any case, we have just shown that the mbila deza has a history entirely unrelated to the xylophone.

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If the evidence of these tuning plans is accepted it may help to throw more light a the early relations between the peoples of this large part of Africa, already increasing illuminated by Rhodesian and other ethno-historians. The kalimba must also accepted as being of very great age, probably not less than a thousand years. We do an know, nor are we likely to, if the original invention took place in cane or metal. If the former, then, of course, the age of the mbira could be much more than the 1500 year or so that iron has been worked in central Africa. One would expect more evidence however, of cane-made instruments, and they are not often found. The great majorin depend heavily on metal for the primary working parts.

If the mbira is indeed a portative xylophone, and xylophones themselves are to have come from Indonesia, it would be of major importance if any evidence were discovered in Indonesia giving any hint of the peculiarities of mbira tuning in Africa, such as - bas in the centre, scales alternating left and right, doubled notes, apparent irregularities, a If, as is imaginable, the kalimba turns out to be the oldest surviving mbira type Africa, then this will be the tuning plan to be searched for. In the meantime, however, I shall have to continue to assume that the mbira is original to Africa. Whether or m the kalimba is the original African mbira, I have tried to show that it is certainly original to a large part of Africa, and as such will definitely be a candidate for the honour.

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#### **BIBLIOGRAPHY**

- JOHN BLACKING: "Patterns of Nsenga kalimba music", African Music, II, 4, 1961. MARJORY DAVIDSON: "A Lunda kalendi", African Music, III, 2, 1963, and III, 3, 1964. "Some music for the Lala kankobele", African Music, IV, 4, 1970.
- JONES: African music in Northern Rhodesia and some other places, Rhodes-Livingstone Mucan
- A. M. Jones: African mass. 1.

  1943;
  "The kalimba of the Lala tribe, Northern Rhodesia", Africa, XX, 4, 1950;
  "Venda note-names", African Music, III, 1, 1962;
  Africa and Indonesia, E. J. Brill, Leiden, 1964.
  P. R. Kirby: The musical instruments of the native races of South Africa, Witwatersrand University Pro-
- Johannesburg, 1953.
  GERHARD KUBIK: "Generic names for the mbira", African Music, III, 3, 1964 and III, 4, 1965.
- CARL MAUCH: The journals of Carl Mauch, ed. E. E. Burke, National Archives of Rhodesia, 1969.
- A. A. Mensah: "The music of Zumaile village, Zambia", African Music, IV, 4, 1970.
- G. T. Nurse: "Cewa concepts of musical instruments", African Music, IV, 4, 1970.
- Andrew Tracey: "The mbira music of Jege A. Tapera", African Music, II, 4, 1961; "Three tunes for mbira dza vadzimu", African Music, III, 2, 1963; "The tuning of mbira reeds", African Music, IV, 3, 1969; "The matepe mbira music of Rhodesia", African Music, IV, 4, 1970;

  - How to play the mbira dza vadzimu, International Library of African Music, Roodepoort, South African 1970.
- HUGH TRACEY: "A case for the name mbira", African Music, II, 4, 1961;
  "The mbira class of instruments in Rhodesia (1932)", African Music, IV, 3, 1969.