KRISHNACHANDRA'S SCHEME OF MELAS

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The attempt at classifying melodies (ragas) on the basis of certain basic scales (melas) and thus establishing a janyajanaka relationship between them is found in several treatises on our music like Ahobila's Sangitaparijata, Ramamatya's Svaramelakalanidhi and Somanatha's Ragaviveka. But the system propounded by Venkatamakhi in his Chaturdandiprakasika obscured all the earlier ones on account of its logical order, symmetrical pattern and mathematical perfection. Even this system has not gone unchallenged, particularly with regard to the forty vivadimelas it propounds, but no alternative scheme of equal facility could be suggested by any of these critics. A venture in such a direction is made by Krishnachandra (Attoor Krishna Pisharoti) in his Sangitachandrika.¹ It is worth while to examine this scheme and see how far it is an improvement on Venkatamakhi's.²

Krishnachandra's method is original; so too the nomenclature. He postulates 84 melas, of which 32 are mukhyamelas and 52 sankirnamelas and names each mela in such a manner as to show whether it is mukhya or sankirna and to indicate which svaras are vikrita. He accepts the conventional 24 srutis in a sthayi and also the 12 svarasthanas and takes Sa and Pa as invariables and the other five as having two varieties each, the first suddha and the second vikrita. But he takes these twelve as uniformly of two sruti interval each and thus takes the Karnatak system as one of equal temperament, a view which is not in consonance with that of most other writers and which is not borne out by the acoustic analysis of the notes in present-day music. It is admitted that in some of the ragas derived from a mela some svaras may have to be sharpened or flattened, but this concession alone does not warrant the Karnatak system being taken as one essentially of equal temperament.

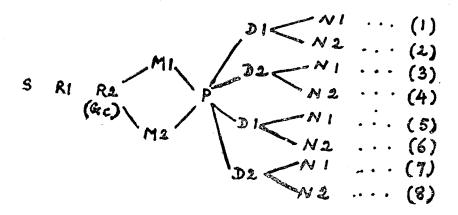
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A mela should have all the seven svaras. It is said to be mukhya if it contains all the svara suddha or either the suddha or the vikrita variety of a svara but not both. It is said to be sankirna if it contains both the varieties of a svara. Among these the mukhyamelas are uttama, the melas which contain both varieties of a single svara are madhyama and those which contain both varieties of two svaras are adhama, this classification being on the basis of their melodic content. When both varieties of a svara occur in a mela one of them is looked upon as a variety of the preceding or succeeding svara as is appropriate in order that the *mela* may have the seven svaras, and they are then given Thus in the company of suddha rishabha, vikrita separate names. rishabha (called chatussruti risabha in current practice) is called chyutagandhara; suddhagandhara (corresponding to our sadharanagandhara) is called tivrarishabha' when followed by vikritagandhara; vikrita dhaivata following suddhadhaivata is called chyutanishada; suddhanishada followed by vikrita nishada is called tivradhaiyata. The association of suddha madhyama with vikritamadhyama (pratimadhyama) is also accepted and the suddhamadhyama in such cases is called tivragandhara.

Apart from the difference in the names given to these varieties of svaras, the distribution of the svaras in the scheme can be seen to be practically the same as Venkatamakhi's:

Among the mukhya melas the first has all the svaras suddha. Then we get five having one of the variables alone vikrita in the order R2 G2 M2 D2 N2. Then are the ten having two of the variables vikrita and they are in the order R2 G2, R2 M2, R2 D2, R2 N2, G2 M2, G2 D2, G2 N2, M2 D2, M2 N2 and D2 N2. Then follow ten melas with three of the variables vikrita R2 G2 M2, R2 G2 D2, R2 G2 N2, G2 M2 D2 etc. Then we get five with four of the variables vikrita R2 G2 M2 D2, R2 G2 M2 N2 etc. Lastly we get one mela with all the variables vikrita. Thus we get 32 mukhya melas.

Under the sankirna type we get two kinds, ekasankirnamela and dvisankirnamela according as the number of Sankirnasvaras occurring is one or two. Under the first we get five groups in the order of the sankirna R, G, M, D, N. Each of these five contains eight melas based on the number of regular permutations. Thus for instance, in the first group containing sankirnarishabha, that is having both varieties of rishabha (the second variety of course being named chyutagandhara), we get four combinations each with M1 and M2. Of these four, the first two have D1 and the other two D2 and in each such pair, the first has N1 and the second N2.



Similarly we get for G, M, D, N thus making a total of 40 ekasankirnamelas. Among the dvisankirnamelas we get six groups, RD, RN, GD, GN, MD, MN. Each of these contains two melas. In the first four the two are due to the difference in M (M1 or M2) and in the other two it is due to the difference in R⁻(R1 or R2). With these 12 dvisankirnas we get thus a total of 52 sankirnamelas.

A close examination of this scheme shows that it contains all the melas propounded by Venkatamakhi, but it contains 12 melas in addition containing both the varieties of madhyama, a class not recognised by him. There is also difference in the arrangement. Venkatamakhi formulates his scheme on the basis of six possible combinations of svaras in the purvanga in the order R1 G1, R1 G2, R1 G3, R2 G2, R2 G3, R3 G3 to each of which is added in order the combinations in the uttaranga D1 N1, D1 N2, D1 N3, D2 N2, D2 N3, D3 N3. By adding M1 to each of these we get 36 melas and by adding M2 another 36, thus making a total of 72. Krishna Chandra's arrangement can be seen to be in the order of the vikrtasvaras or sankirnasvaras as the case may be.

In the names of the varieties of the svaras also we find some difference:

Krishnachandra		Venkatamakhi	
Suddha Rishabha	(R1) =	Suddha Rishabha	(R1)
Vikrita Rishabha Chyuta Gandhara	, ,	Chatussruti Rishabha Suddha Gandhara	(R2) (G1)
Suddha Gandhara Țivra Rishabha		Sadharana Gandhara Shatsruti Ris habha	(G2) (R3)
Vikrita Gandhara	(G2) =	Antara Gandhara	(G3)

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Suddha Madhyama	(M1) =	Suddha Madhy a ma	(M1)
Tivra Gandhara	(Gt)		
Vikrita Madhyama	(M2) =	Pratimadhyama	(M2)
Suddha Dhaivata	(D1) =	Suddha Dhaivata	(D1)
Vikrita Dhaivata Chyuta Nishada	` ,	Chatussruti Dhaivata Suddha Nish a da	(D2) (N1)
Suddha Nishada Tivra Dhaivata	· ->	Kaisiki Nishada Shatsruti Dhaivata	(N2) (D3)
Vikrita Nishada	(N2) =	Kakali Nishada	(N3)

As in the Venkatamakhi school, Krishnachandra too adopts the Katapayadi mnemonics in naming the melas, but the names are so coined as to indicate the vikritasvara and sankirnasvaras in the mela and not the numerical position of the mela in the table. Thus the first mela is named inana (0, 0) in which the letters stand for zero thereby indicating that no svara is vikrita. This corresponds to the Hanumatodi of current nomenclature. The eighteenth mela is named srigata (2, 3, 6) which shows that the second, third and sixth svaras (R, G, D) are vikritas and this corresponds to Harikamboji. The sankirnamelas have all names beginning with sam; the next letter in the name indicates the sankirnasvara in the case of ekasankirnas and the following letter too in the case of dvisankirnas, and the rest of the letters show the vikritasvaras. Thus sampraina (2, 0) indicates that the second svara (R) is sankirna and no svara is vikrita and corresponds to the Ratnangimela in Venkatamakhi's system. Samlata (3, 6) indicates that the third svara (G) is sankirna and the sixth (D) is vikrita and corresponds to Vagadheeswari Samsiragumbha (7, 2, 3, 4) shows that the seventh (N) is sankirna and the second, third and fourth (R, G, M) are vikrita.

These names are obviously different from those in Venkatamakhi's system. In the latter the first two letters in the name taken in the reverse order give the number of the *mela* such as *Khara* (22) harapriya and Mecha (65) kalyani, and from the number the svaras in the particular mela can be ascertained. But here the names directly indicate the vikritasvaras. But for each mela the author gives the principal full scale raga coming under it and this is generally identical with the melaraga of the Venkatamakhi school, sometimes stripped of the initial indicatory letters. The following examples may be cited:

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M	ıla.	

Gatha Varsham Labhartham Ragottamsam Samtulabha

Ragangaraga

Malyaragaula Margini Kamavardhini Sankarabharanam Dhavalambari The author observes that although he has postulated 84 melas, only seven among these are the most important because the vast majority of the janyaragas come under these. They are Jnana, Ratna, Rakti, Gatha, Srigata, Ragottamsa and Ragavatamsa³ with the respective ragangaragas Todi, Bhairavi, Harapriya, Malavagaula, Harikamboji, Sankarabharana and Kalyani.

It can now be seen that the most outstanding features of the *mela* scheme propounded by Krishnachandra are: (1) the *mukhya melas* (samvadimelas), and sankirnamelas (vivadimelas) are separately classed unlike in Venkatamakhi's where in certain chakras both occur although in definite position; (2) 12 melas in addition to those of Venkatamakhi are postulated and these have both the varieties of madhyama, although in such cases the suddhamadhyama is given the name 'tivragandhara'; (3) the arrangement in the mela chart is in the order of the vikritasvaras and not in the order adopted by Venkatamakhi; (4) the names of the melas are new and devised to indicate the vikritasvara.

Earlier propounders of *melakarta* schemes are subjected to much adverse criticism and Venkatamakhi is particularly so. The arguments against Venkatamakhi's system are mainly three. First, the identification of the svaras in a mela involves the tedious process of finding out the number of the mela from the initial syllables in its name, then the particular chakra to which it belongs, then the position of the mela in that chakra and finally the actual syaras constituting the mela. The name of the mela has no connection whatsoever with the names of the chakra or of the place in the chakra. There would have been better connection among them if instead of a name like Mayamalavagaula, a more self-explanatory one like Agnigomalavagaula was adopted so that one can easily understand that the *mela* in question is the third (go=3) in the third chakra (agni=3). The present nomenclature avoids all this difficulty by coining names which indirectly indicate the vikritasvaras and the sankirnasvaras. Secondly, the system is incomplete in so far as melas having both varieties of madhyama are not included in it. This is a noteworthy omission since in ragas like Saranga we get both M1 and M2. The claim that this scheme comprises all the possible melas is, thus, unwarranted. Thirdly, Venkatamakhi is contradicting himself in that he states that the raga Saranga which is given under the Santakalyanimela has suddhamadhyamagandhara4 which means that this has the suddhamadhyama position as its gandhara, thereby implying that it cannot be under Kalyanimela.

Let us examine these objections raised against Venkatamakhi and see how far they are tenable.

It is true that the scheme as it obtains now has a sankhya-chakra-sthana-svara process but it may be noted that this is a later ornamentation added to Venkatamakhi's original scheme which simply speaks of the order of the combinations. Even granting it as an integral part of the system, this process which is considered tedious, is only theoretical, since the melas are named after the most common krama-sampurna raganga

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raga coming under each like Mayamalaragaula and Dhirasankarabharana, the svaras in each and thereby in its derivative ragas can be easily known. Even if one is not familiar with any particular mela one can know the svaras in it from its number alone which would enable one to locate its exact position without resorting to the name of the chakra and the name of the sthana. It is to facilitate this that Venkatamakhi names the svaras after the most popular raga in which they occur also, like Gaularishabha, Varalimadhyama and Sriragadhaivata.

In the scheme, combinations of M1 and M2 are not recognised because we do not get regular occurrences of both these in any raga, except in certain particular prayogas, where instead of the normal M2 we get M1. If a mela with M1 and M2 is accepted, there will be no place for Gandhara in it, since a mela can have only seven svaras and the function of Gandhara will have to be discharged by the suddhamadhyama. This would result in the raga having no svara corresponding to the antaragandhara. Saranga will then be deprived of its characteristic colour because we do get in it, in practice, antaragandhara and the very prayoga of suddhamadhyama R2 G2 M1 R2 S in it, is in association with this gandhara. The attempt, therefore, to devise a mela for accommodating ragas like Saranga disfigures the very ragas and defeats the purpose. It is, therefore, in the fitness of things that a raga like Saranga is considered as a janya of Kalyani and the suddhamadhyama, where it occurs, as an adventitious svara which has incorporated itself into the raga.

The lakshana of Saranga cited to show the contradiction in Venkatamakhi is taken from the Ragalakshana given as an appendix to the Chaturdandiprakasika published by the Madras Music Academy. This appendix is taken by Krishnachandra as a work of Venkatamakhi himself probably on the basis of such a view expressed in the preface to that edition. But a close examination of the text and the appendix would show that the two are not likely to be by one and the same person. The Ragalakshana portion is perhaps by the later writer Muddu Venkatamakhi. Granting that it is, in any case by a follower of Venkatamakhi's system, one has to doubt whether the meaning given to the expression suddhamadhyamaganvitah is justifiable. Had the name been Chyutamadhyamagandhara we could agree with the author that it is a variety of gandhara, what he denotes as tivragandhara, but as it is it seems to mean that it has got gandhara accompanied by suddhamadhyama, a feature which we actually find in Saranga.

It can therefore, be seen that Krishnachandra's criticism of Venkatamakhi is not quite warranted and his own scheme of 84 *melas* is hardly an improvement on the existing one and in fact raises fresh complications. He is oblivious of the imperfections in his own suggestions when he finds fault with earlier writers.

That we do not find the *mela* scheme of Krishnachandra to be much of an improvement on Venkatamakhi's system need not be taken to mean that his contribution to musical knowledge is not commendable.

In fact this work as a whole is so full of matter relating to several aspects of our music that any patient reader will be simply astounded by its magnitude and magnificence.

FOOTNOTES

- 1. Published by the Gita Ltd., Trichur, 1954.
- This has been briefly indicated in the writer's review of the book in Vol. XXVI of the Journal of the Madras Music Academy published in 1956. But the topic deserves fuller treatment and hence the present exposition.
- ज्ञानं रत्नं गक्तिगाथे श्रीगताख्यद्र पञ्चमः ।
 रागोत्तंसावतंसी स सप्त मुख्यतमा मता : ।।
- सायं गेयस्तु सारङ्ग : शुद्धमध्यमगान्वित : ।
- 5. The following differences between the *Chaturdandiprakasika* (CDP) and the *Ragalakshana* (RL) may be noted:
- (a) While CDP deals with only 19 melas, RL gives the names of all the 72 melas.
- (b) RL gives the names of the melas with the first two syllables giving the number by Katapayadi mnemonics. CDP does not give this.
- (c) Difference in the names of melas are also seen. Gaula, Kambhoji and Bhairav i of CDP are Mayamalavagaula, Harikedaragaula and Nariritigaula in RL.
- (d) Ragas not mentioned in CDP are found given in RL. Such, for instance, are Manirangu, Margahindola, Gauri and Saindhavi.
- (c) Difference in views between the two are also seen. CDP gives Hejjujji as a Sampurna raga with S as graha; RL gives it as without N in aroha and with M as graha. In Hindola, R and D are the svaras absent according to CDP, but according to RL they are R and P.

For other differences and a fuller treatment of the topic see V. Raghavan, Venkatamakhi and the 72 Melas in Vol. XII of the Journal of the Madras Music Academy.

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