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## GAMAKA AND ITS VISUAL REPRESENTATION

In Karnāṭak music, each rāga is identified by phrases, defined by specific movements of the constituent tones, expressed also in terms of svara-s.

"In modern practice, the sound that a south Indian would describe as a "svara" in any given musical context might be a plain note, but it might also be a complex of pitches analogous to a note with a turnsign over it, a note with a portamento from the preceding note, or one of many other types of ornate sounds. It is important to remember that a svara in a specific musical context is not just a "note" separable from its "ornaments" but is, rather, the whole sound complex considered as a unit"<sup>1</sup>.

This concept of gamaka is perhaps as old as our music itself. Many treatises define a set of 10-15 Gamaka-s. Subbarama Diksitar, in his <u>Sampradāya Pradarsini</u>, has notated many compositions with the aid of symbols (designated to specific Gamaka-s).

<sup>1</sup>Harold S. Powers.

The Back ground of the South-Indian Raga System p.8.

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In contemporary works, the general notation followed is the 'svara notation" which is only prescriptive. Our analysis of some chosen raga-s has many instances wherein a particular svara or phrase lends itself to interpretation in many ways. It is, therefore, essential to give a descriptive notation which would convey what the writer intends. The western staff notation cannot be adapted for our system, although it has precision. The problems of transcription and perception of (easily identifiable) svara-s through symbols could be taxing. In the descriptive notation, all the microtones figuring or constituting a phrase are notated ---- the phrase being first split in terms of the identifiable or singable svara-s (as in prescriptive notation) over which the microtones figuring in each svara and pause is notated with the approximate duration. The microtones, also, could be at times approximate, and are subject to a variety of approches.

"In the case of oscillating ornaments, it is obviously pointless to make electronic measurements in order to produce a pseudo-scientific appearance of mechanistic musical determinacy:."<sup>2</sup>

ماد داران ماین ماید داران میش همه خده همه همه مورد منتز مین کنه میه می می می می می معرف می هم از ایم میزد زیاد وی می مع می می مرد د

<sup>\*</sup> At times supplemented with some not so well defined terms and symbols <sup>2</sup> Harold.S. Powers, <u>The Back ground of the South Indian Raga</u> System, p203.

The extent of approximational variation is too minimal to distort the ragatva or idea conveyed.

To notate a phrase descriptively, it is essential to undo many preconceptions. Our ears are trained to see a phrase as a complex movement, and to simplify it in terms of the constituent microtones (or the recognisable svara sthana-s within a svara) is a task. The splitting of the tones ---- and the designation of specific microtones for the svara-s in the prescriptive notation ---- is, besides being difficult, a process wherein one could be deceived by one's own ears. The notation, again, could be used only as a reference or aid for learning or teaching, but the fact still remains that music is a language of sounds, and only Dynamics, in terms of volume (again a variable sounds. factor in music), cannot be indicated, and the audio cassette is intended to rectify these shortcomings.

To arrive at the descriptive method of notation, it is essential to understand the following concepts :

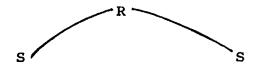
- i) Movement pattern or the way of Gamaka
- ii) Microtones.

Movements, in the most elementary sense, are of four patterns. Any complex movement or 'Gamaka' could be easily split up into its component basic movements. The

complexity, as seen by us, arises more due to the inherent dynamic factors than to the movement itself. \*

Movement involving two notes is of three varieties.

A) Up and down movement with equal duration in both
the notes, uniform stress being given by duration alone.



Ex. S R S

B) Speedy upward movement with quick stress on the second note, the first note being longer.

R (Shorter, & rather hit quickly). S (longer)

(P.S. This movement is similar to what is commonly known as 'sphuritam' to vainika-s.)

C) This is the reverse of B. Here the movement is from a long upper note, hitting at the lower shorter note.

<sup>\*</sup>In most of the existing works, Gamaka-s are understood as complex movements. The following analysis of the gamakas is based on the new opproches to gamakas evolved by Karaikudi Dr. S. Subramaniam.

D) B and C combine to give the movement illustrated below.

Ex. RS  $\downarrow$  S

The position of sadja, here, is defined with respect to the upper and lower limits. The interval in the second part  $\downarrow$  ' is very close to sadja. In other words, sadja is accented from a microtone slightly below.

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(The numbers indicate the svara-s or microtones involved, in the ascending order of sthana.)

Ex: g R (in Bhairavi)

R = 1, g = 2. g R is characteristically rendered as m g, m R, therefore, m = 3.

The movement is as follows:

mg, mR or 3 2 3 1



The 'Vibrato kind of oscillation' is used in a note more particularly as a device to bring a thrust upwards. Occasionally, the vibrato<sup>\*</sup> itself is also used, but in very small proportion. (The frequent use of vibrato is considered to be in the domain of 'light music'.)

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<sup>\*</sup> In the complete sense. A mild vibrato kind of oscillation is frequently used in our music.

iii) Microtones:

Our ears are trained to see the raga through phrases, and phrases through svara-s designated to the underlying movements. At a conscious level, we do not recognise the microtones (other than the svara sthana-s taken by the raga). We perceive these microtones as oscillation, or movements of the svarasthana-s (taken by the raga under study. The fact is that more often svara-s are designated to the movements, and similar movements even within one raga may be expressed through different svara-s in different phrasal contexts. Many instances are found in the analysis.) A detailed analysis will prove that many raga-s take microtones other than the actual svarasthana-s. Ex. 'Ri' of Devagandhari, Kalyani, Madhyamavati, Mohanam is not always defined by the oscillation between Ri and the next adjacent svarasthana taken by the raga --- i.e., Ga (in Dēvagāndhāri, Kalyāni and Móhanam), and ma in Madhyamāvati. It is very often a movement between 'Ri' and This Gamaka, if examined from a conscious level, 'ga'. might defy the Arohana - Avarohana or scalar perception.

Movements are, therfore, very basic. This is perhaps why scales evolve into potential rāga-s in course of time. At the same time, a conscious production of such microtones (perceived outside the frame work of rāga) is not very desirable. It is not uncommon to hear .

ŚNŚ N	D, D	nDn	Dì	I,D M	MG, m G	r	in Pūrvikalyāņi
ŝ	n	P	m	g,R g	g,	,	in Śuddhadhanyasi
S,N S	ŚN ,	,	nD,n D P				in Mōhanam

This kind of Gamaka, however pleasing, (even if the microtone figures in many other phrases in the raga,), is best avoided. It definitely imparts a lighter and non-classical touch to the raga. A good performer would be definitely able to distinguish the right movement pattern and employ them judiciously.

The discussion on Gamaka-s/microtones may sound very complicated, and the notation very simple. Movements ----when sung ---- are complex, and when analysed, are still more complex. A final presentation through descriptive notation might look very simple. It is these contradictions inperception and communication that form a large lacuna in lakṣaṇa and inadequacy in communicating lakṣya.

"Though all the discussion of ornamentation may seem quite complicated, even over simplified as it is in many instances here, it seems so only because of the necessity to attempt rather precise and detailed description. They (South Indian ornaments) are absolutely

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fundamental to the system, but they are largely unconsciously produced. The complexity lies in the analysis, not in the data, and the final result, once the analysis has been made, is once again relatively simple."<sup>3</sup>

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<sup>3</sup> Harold. S. Powers <u>The Back ground of the South Indian Raga System</u> p.204

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