# ON CERTAIN FUNCTIONS OF 'A-CHUNG IN EARLY TIBETAN TRANSCRIPTIONAL TEXTS\*

### W. South Coblin

University of Iowa

# 1. INTRODUCTION

It is probably fair to say that there is currently considerable consensus among tibetologists on the graphic functions and even on the original phonetic values of the sounds represented by most of the letters of the Tibetan alphabet. An exception to this is the letter  $\Im$  '*a*, now often referred to as '*a*-chung. And even in the case of this letter there is agreement on many points. For example, in Written Tibetan (WT) the syllables dag 57 and dga' 577 are distinguished by placing 'a-chung in syllable final position after the letter -g-. And in WT transcriptions of Sanskrit, 'a-chung is subscribed to indicate the presence of a long vowel in the underlying Sanskrit syllable. In both of these cases, 'achung seems to function as an abstract graphic element or diacritic rather than as the bearer of a particular phonological entity. Furthermore, in a small number of words, which in many modern dialects have pure or smooth vocalic ingress rather than an initial consonant, 'a-chung indicates the absence of any other consonant, including ?- (written as &, the so-called ?a-chen). Viewed from a purely graphic standpoint, 'a-chung in such cases carries the vowel where the system provides no other grapheme for this purpose. Similarly, it bears the second and third vocalic elements in diphthongs and triphthongs (as, for instance, in *rte'u* "little horse" and *me'a'o* "cat's mew").

But beyond these widely recognized functions, '*a-chung* can also occur in pre-consonantal position in WT texts, and on its function and value here there is significant disagreement, involving not only tibetologists but also sinologists, Tibeto-Burmanists, and others who for one reason or another have a stake in its interpretation. The majority of earlier investigators can perhaps be divided into two groups, i.e. those on the one hand who have taken as their starting point the historical-comparative study of modern Tibetan dialects, and those on the other hand who have framed the problem in some other terms, such as paleographic

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origins of the grapheme, Tibetan and Tibeto-Burman linguistic prehistory, and in several cases even the *a priori* assumption that 'a-chung in all its environments must have represented a single phonetic entity (i.e. a sort of "Unified Field Theory" of 'a-chung). Persons of the second, and more diverse, group have variously suggested that pre-consonantal 'a-chung represented 1) a vowel or essentially vocalic element of some sort, 2) a laryngeal fricative or glide, or 3) a glottal stop pre-initial. Members of the first group, noting that opposite WT 'a-chung + consonant clusters certain modern dialects possess prenasalized consonants, have posited for the common ancestor of the dialects a set of prenasalized obstruents and then suggested that 'a-chung in pre-consonantal position was specifically a mark of nasalization or prenasalization. This approach has then been attacked on graphic grounds. For, say its critics, had the script framers intended to represent nasal sounds, they would more probably have chosen the already available nasal letters, m, n, ny, and ng, for this purpose. In comparing these various rather different schools of thought it is worth noting here that they do share common ground in one respect, i.e. they all seek to discover "how 'a-chung was pronounced." It is in their answers to this question, rather than in their framing of it, that they part company.

In studying the origins and early history of the Tibetan script and its relationship with the earliest known phonological stages of the language, it is important to take account not only of WT but also of texts of the Royal or Old Tibetan (OT) period. For it is the OT corpus which lies closest in time to the invention of the script, a process which is thought to have occurred over a relatively short span of time during the first half of the seventh century. As regards 'a-chung in particular, we know that the use of this letter in OT texts was not identical in every respect with its usual applications in WT. For example, we find in OT such non-canonical syllable types as dba's 573, dma's 5NRN, and mda'd NSR5. And we also note that 'a-chung was not normally or systematically used as a subscript to represent long vowels in transcriptions of Sanskrit (Hackin 1924:88). Perhaps its OT application as a pre-consonantal element might also be examined more closely. The present paper undertakes one aspect of this task, by examining the use of preconsonantal 'a-chung in OT transcriptions of Chinese and Sanskrit words. The hope is that this may shed some light on the more general controversy regarding 'a-chung in Tibetan texts of various periods.

#### **2** OT TRANSCRIPTIONS OF CHINESE

The study of Dunhuang manuscript and inscriptional Tibetan transcriptions of Chinese has a long and illustrious history, culminating most recently in the

comprehensive compendium of Tokio Takata (1988). And over the last half century it has often been noted that in these transcriptions Tibetan combinations of 'a-chung + consonants are used to render Chinese sounds which in Bernhard Karlgren's Qieyun 切韻 System (QYS) interpretations are represented as the nasal initials, n-, m-, and ng-. On independent grounds, these Chinese nasals are widely thought to have been prenasalized voiced stops during the relevant period (Maspero 1920:29), or perhaps, as more recently suggested, "poststopped nasals" (Chan 1987). This of course accords well with the previously mentioned theory that similar combinations in native Tibetan texts originally represented prenasalized initials. Thus, the standard and often repeated characterization of pre-consonantal 'a-chung in Tibetan transcriptions of Chinese is that it "stands for nasality." This is all very well. But what is seldom mentioned in the literature is that there are many 'a-chung + consonant combinations in these materials which clearly do not function in this way. The following is a list of such "irregular" cases, arranged by Chinese initial types. Entries are where possible numbered as in Takata's tables. OYS interpretations are in Karlgren's system, as emended by F. K. Li. They are given for reference only; it is not claimed that they are historically correct representations of the underlying Chinese forms. Dunhuang Tibetan transcriptional texts and Old Tibetan inscriptional sources are identified using the following conventional abbreviations:

- C = Qianziwen 千字文
- DA = Daoan fashi nianfo zan 道安法師念佛讚
- FP = Fahuajing pumenpin 法華經普門品
- K = Jingangjing 金剛經
- Kbr = Khotanese Brāhmī; all such forms follow Takata (1988).
- NT = Nantianzhu guo putidamo chanshi guanmen 南天竺國菩提達磨禪師觀門
- O= Emituojing 阿彌陀經
- P= Bore bolomiduo xinjing 般若波羅蜜多心經
- Pb = Tibeto-Chinese phrase books; forms from these texts have been assigned numbers agreeing with the order of Takata's data tables, with lower case letters added by us.
- MT = Multiplication Table
- S-T = Sino-Tibetan Treaty Inscription of 821-822
- T = Dasheng zhongzong jianjie 大乘中宗見解
- TD = Tiandi bayang shenzhoujing 天地八陽神咒經

Forms directly pertinent to our discussion are highlighted in boldface. For comparison, a selection of other, non-highlighted forms is given where available. In the case of the S-T data, pertinent examples where '*a*-chung is subjoined rather than anteposed are also included.

## Labials

0073 0434 0434a	補胞豹	QYS QYS QYS		O: 'phu TD: 'phye'u Pb: 'be'u "leopard, wildcat"
0434a 0481	不	QYS	pau- pjəu, pjəu:,	pjəu-, pjuət K, O, TD, NT, DA, P: pu; <b>TD</b> , <b>DA:</b> 'bu
0737	遍	QYS	pien-	O, TD: pyan; NT: 'byan
1141	$\vdash$	QYS	puk	TD: 'bug
0649	攀	QYS	phwan	NT: 'pwan
0077	菩	QYS	buo	K, O, TD, P: bu; <b>O</b> , <b>TD:</b> 'bu; T: phu; <b>NT:</b> 'pl
0078	部	QYS	buo:	S-T: bo, 'bo
0222	排	QYS	băi	NT: 'pyi
0284a	皮	QYS	bje <sup>3</sup>	Pb: *皮轡頭 T: 'byi pyi tho'u "reins"
0304	比	QYS	bi <sup>4</sup> , bi- <sup>4</sup>	C: bi; O, TD: 'byi; TD: 'byi
0814	貧	QYS	bjen <sup>3</sup>	<b>TD: 'bin</b> , byin; DA: byin
1027	白	QYS	bok	K: big; TD: beg; NT: 'beg; Kbr: phehä, phihä
1042	平	QYS	bjwong	TD: beng; NT: 'byan T: pheng
				Labiodentals
0151	夫	OYS		
0151 0392	夫非	QYS QYS	pju pjwei	Labiodentals C, TD, T: phu; <b>TD: 'phu, 'bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O, TD: 'phyi</b> ; K: phyi; Kbr: hvī; hvī
		-	pju	C, TD, T: phu; <b>TD: 'phu, 'bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O, TD: 'phyi</b> ; K: phyi; Kbr:
0392	非	QYS	pju pjwei	C, TD, T: phu; <b>TD: 'phu, 'bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O, TD: 'phyi</b> ; K: phyi; Kbr: hvī; hvī
0392 0394	非誹	QYS QYS	pju pjwei pjwei:	C, TD, T: phu; <b>TD: 'phu, 'bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O, TD: 'phyi</b> ; K: phyi; Kbr: hvī; hvī <b>TD: 'phyi</b>
0392 0394 0483	非 誹 富	QYS QYS QYS	pju pjwei pjwei: pjəu-	C, TD, T: phu; <b>TD:</b> ' <b>phu</b> , ' <b>bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O, TD:</b> ' <b>phyi</b> ; K: phyi; Kbr: hvī; hvī <b>TD:</b> ' <b>phyi</b> C, DA: phu; <b>TD:</b> ' <b>phu</b>
0392 0394 0483	非 誹 富	QYS QYS QYS	pju pjwei pjwei: pjəu-	C, TD, T: phu; <b>TD:</b> ' <b>phu</b> , ' <b>bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O, TD:</b> ' <b>phyi</b> ; K: phyi; Kbr: hvī; hvī <b>TD:</b> ' <b>phyi</b> C, DA: phu; <b>TD:</b> ' <b>phu</b> K, O, TD, T, DA, P: phab; <b>TD:</b> ' <b>bwab</b> ; <b>NT:</b> ' <b>phwab</b> , ' <b>pwab</b> ; Kbr: hva:bä, hva:pä,
0392 0394 0483 0572	非 誹富法	QYS QYS QYS QYS	рји рјжеі рјжеі: рјэи- рјжор	C, TD, T: phu; <b>TD:</b> ' <b>phu</b> , ' <b>bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O</b> , <b>TD:</b> ' <b>phyi</b> ; K: phyɨ; Kbr: hvī; hvī <b>TD:</b> ' <b>phyi</b> C, DA: phu; <b>TD:</b> ' <b>phu</b> K, O, TD, T, DA, P: phab; <b>TD:</b> ' <b>bwab</b> ; <b>NT:</b> ' <b>phwab</b> , ' <b>pwab</b> ; Kbr: hva:bä, hva:pä, hvabä, hva:rä, hva:
0392 0394 0483 0572 0715	非 誹富法 返	QYS QYS QYS QYS QYS	pju pjwei pjwei: pjəu- pjwop pjwon:	C, TD, T: phu; <b>TD:</b> ' <b>phu</b> , ' <b>bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O</b> , <b>TD:</b> ' <b>phyi</b> ; K: phyɨ; Kbr: hvī; hvī <b>TD:</b> ' <b>phyi</b> C, DA: phu; <b>TD:</b> ' <b>phu</b> K, O, TD, T, DA, P: phab; <b>TD:</b> ' <b>bwab</b> ; <b>NT:</b> ' <b>phwab</b> , ' <b>pwab</b> ; Kbr: hva:bä, hva:pä, hvabä, hva:rä, hva: <b>TD:</b> ' <b>ban</b>
0392 0394 0483 0572 0715	非 誹富法 返發 分	QYS QYS QYS QYS QYS	pju pjwei pjwei: pjəu- pjwop pjwon:	C, TD, T: phu; <b>TD:</b> ' <b>phu</b> , ' <b>bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O</b> , <b>TD:</b> ' <b>phyi</b> ; K: phyi; Kbr: hvī; hvī <b>TD:</b> ' <b>phyi</b> C, DA: phu; <b>TD:</b> ' <b>phu</b> K, O, TD, T, DA, P: phab; <b>TD:</b> ' <b>bwab</b> ; <b>NT:</b> ' <b>phwab</b> , ' <b>pwab</b> ; Kbr: hva:bä, hva:pä, hvabä, hva:rä, hva: <b>TD:</b> ' <b>ban</b> K: phar, ' <b>phar,</b> ' <b>pher</b> ; <b>TD:</b> ' <b>phwad</b> ; Kbr:
0392 0394 0483 0572 0715 0730	非 誹富法 返發	QYS QYS QYS QYS QYS	pju pjwei pjwei: pjəu- pjwop pjwon: pjwot pjuən pjuət	C, TD, T: phu; <b>TD:</b> ' <b>phu</b> , ' <b>bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O</b> , <b>TD:</b> ' <b>phyi</b> ; K: phyi; Kbr: hvī; hvī <b>TD:</b> ' <b>phyi</b> C, DA: phu; <b>TD:</b> ' <b>phu</b> K, O, TD, T, DA, P: phab; <b>TD:</b> ' <b>bwab</b> ; <b>NT:</b> ' <b>phwab</b> , ' <b>pwab</b> ; Kbr: hva:bä, hva:pä, hvabä, hva:rä, hva: <b>TD:</b> ' <b>ban</b> <b>K:</b> phar, ' <b>phar,</b> ' <b>pher</b> ; <b>TD:</b> ' <b>phwad</b> ; Kbr: hva:rä, hvarä
0392 0394 0483 0572 0715 0730 0847	非 誹富法 返發 分	QYS QYS QYS QYS QYS QYS QYS	pju pjwei pjwei: pjəu- pjwop pjwon: pjwot pjuən	C, TD, T: phu; <b>TD:</b> ' <b>phu</b> , ' <b>bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O</b> , <b>TD:</b> ' <b>phyi</b> ; K: phyi; Kbr: hvī; hvī <b>TD:</b> ' <b>phyi</b> C, DA: phu; <b>TD:</b> ' <b>phu</b> K, O, TD, T, DA, P: phab; <b>TD:</b> ' <b>bwab</b> ; <b>NT:</b> ' <b>phwab</b> , ' <b>pwab</b> ; Kbr: hva:bä, hva:pä, hvabä, hva:rä, hva: <b>TD:</b> ' <b>ban</b> <b>K:</b> phar, ' <b>phar,</b> ' <b>pher</b> ; <b>TD:</b> ' <b>phwad</b> ; Kbr: hva:rä, hvarä TD: phun; T: phun; <b>NT:</b> ' <b>pun</b>
0392 0394 0483 0572 0715 0730 0847 0853	非 誹富法 返發 分弗	QYS QYS QYS QYS QYS QYS QYS	pju pjwei pjwei: pjəu- pjwop pjwon: pjwot pjuən pjuət	C, TD, T: phu; <b>TD:</b> ' <b>phu</b> , ' <b>bu</b> ; S-T: pu, pu', p K, O, T: phyi; <b>O</b> , <b>TD:</b> ' <b>phyi</b> ; K: phyi; Kbr: hvī; hvī <b>TD:</b> ' <b>phyi</b> C, DA: phu; <b>TD:</b> ' <b>phu</b> K, O, TD, T, DA, P: phab; <b>TD:</b> ' <b>bwab</b> ; <b>NT:</b> ' <b>phwab</b> , ' <b>pwab</b> ; Kbr: hva:bä, hva:pä, hvabä, hva:rä, hva: <b>TD:</b> ' <b>ban</b> <b>K:</b> phar, ' <b>phar,</b> ' <b>pher</b> ; <b>TD:</b> ' <b>phwad</b> ; Kbr: hva:rä, hvarä TD: phun; T: phun; <b>NT:</b> ' <b>pun</b> C: phur; <b>O:</b> ' <b>bur</b> , bur

0946	妨	QYS	phjwang	O: 'hwang, phung		
0484	覆	QYS	phjəu-	T: phu; O: 'phu		
0155	父	QYS	bju:	TD: 'phu; DA: phu		
0485	浮	QYS	bjəu	TD: 'bu		
0570	凡	QYS	bjwom	TD, T: bam; <b>TD: 'bam</b> ; Kbr: hvam:mä		
0571	梵	QYS	bjwom-	O, TD: bam; NT: 'pwam, wyam; Kbr:		
				hvam:mä		
0716	煩	QYS	bjwon	C: ban; O: 'ban; T: phan; NT: 'pwan		
0849	分	QYS	bjuən-	C: bun; <b>K, TD: 'bun</b>		
0855	佛	QYS	bjuət	K, FP: bur; <b>O, TD: 'bur</b> ; FP, T, DA, P:		
				phur; Kbr: hvi:rä, hvirä, hva:rä, hvarä		
0952	縛	QYS	bjwak	T: 'pwag		
1175	復	QYS	bjuk	<b>K, TD: 'bug</b> ; P: phug; Kbr: hvū:ḫä,		
				h̥vūːḥä:, hvä:hä, hvāhä		
1193	奉	QYS	bjwong:	O: 'bung; Kbr: hvūm:nä		

# Dentals

0972	等	QYS	təng:	K, O, TD: ting; O: teng; T, NT: ding; <b>NT:</b> 'ting;
				Kbr: ttimgä
0003	陀	QYS	dâ	<b>O:</b> da, ' <b>da</b> ; TD: da
0004	大	QYS	dâ-	<b>NT: 'da'</b> ; TD: ta
0464	調	QYS	dieu	<b>TD: 'de'u</b> ; DA: thye'u
0471	投	QYS	dəu	TD: de'u, 'de'u
0472	頭	QYS	dəu	<b>TD: 'de'u</b> ; DA: thi'u
0619	達	QYS	dât	C, TD, T: dar; <b>O: 'dar</b>

# Retroflex Stops

1156	中	QYS	tjung	K, O, T, P: cung; O, TD: chung; TD: jung; S-T:
				cung, <b>c'ung</b> ; Kbr: ṭūṃṅä, ṭūṃ
0140	住	QYS	dju-	K, NT: ju; <b>NT: 'ju</b> ; chu
0342	持	QYS	dï	TD: jɨ, 'jɨ, 'jɨ, ci; T: chi; Kbr: kṣī, kṣi, kṣvyū
0551	湛	QYS	dăm:	NT: 'jam, 'jyam

## W. South Coblin

## Palatals

1187 種QYStśjwong:TD, NT: cung, jung; T: jung; TD: chung, 'jang; Kbr: tūmnä0912 昌QYStśhjangTD: 'chang0806 神QYSdźjenTD, T, NT, P: shin; C, TD: śɨn; NT: 'shin; Kbr: śīmnä; S-T: shɨn0995 乘QYSdźjəng-K, T: shing; NT: 'shing; TD: ceng	0112	諸	QYS	tśjwo	K, O, DA, TD, P: ci; C, T, NT: cu; <b>O: 'cu</b> ; Kbr: cū, cūm
0912 昌QYStśhjangTD: 'chang0806 神QYSdźjenTD, T, NT, P: shin; C, TD: śɨn; NT: 'shin; Kbr: śīmnä; S-T: shɨn0995 乘QYSdźjəng-K, T: shing; NT: 'shing; TD: ceng	1187	種	QYS	tśjwong:	TD, NT: cung, jung; T: jung; <b>TD:</b> chung,
0806 神QYS dźjenTD, T, NT, P: shin; C, TD: śɨn; NT: 'shin; Kbr: śīmnä; S-T: shɨn0995 乘QYS dźjəng-K, T: shing; NT: 'shing; TD: ceng	0012	曰	OVS	téhiong	
Kbr: śīṃnä; S-T: shɨn 0995 乘 QYS dźjəng- K, T: shing; <b>NT: 'shing</b> ; TD: ceng			-		
0995 乘 QYS dźjəng- K, T: shing; NT: 'shing; TD: ceng	0800	ተዋ	QIS	uzjen	
	0005	乖	ovs	dźiong-	•
0678 褶 OYS źiän Trishan: T NTrizhan: NTri 'zhan	0678	深禪	QYS	ázjang- źjän	T: shan; T, NT: zhan; $NT: 'zhan$
0917 常 QYS źjang <b>TD:</b> jang, ' <b>jang</b> , jyang, sheng; T: shong,			-		
shyong; S-T: shang; Kbr: śā	0717	113	Q10	zjung	
0357 始 QYS śī: TD: she, shɨ; <b>NT: 'shi</b>	0357	始	OYS	śï	
0502 守 QYS śjəu: C: shɨ'u; S-T: zhɨ'u, sh'ɨ'u,					
0565 攝 QYS śjäp T: shab; <b>NT: 'shwab</b>					
					TD, T, P: shig; TD, T: sheg; TD: shig; NT: 'shig
1076 聲 QYS śjäng O, TD, FP, T: sheng; TD, NT, DA: she; NT:					
<b>'she</b> ; Kbr: śe, śai		-		5 0	
Retroflex Fricates					Retroflex Fricates
0124 初 QYS tshjwo T: chu; NT: 'chu; HS: che	0124	初	QYS	tshjwo	T: chu; NT: 'chu; HS: che
0930 莊 QYS tsjang K, O: tsang, 'tshang	0930	莊	QYS		
Pb: *莊田人 T: cang ten zhin "farmer"					Pb: *莊田人 T: cang ten zhin "farmer"
0127 所 QYS sjwo K, O: shi; O, TD: she; P: zhi; K: se'i, se; K, O,	0127	所	QYS	sjwo	
T: shu; NT: 'zho; Kbr: ṣū, śū					T: shu; NT: 'zho; Kbr: ṣū, śū
Sibilants					Sibilants
0794 進  QYS  tsjen-  O: tsin; T, NT: dzin; T: tshin; <b>NT: 'jyin</b>	0794	雈	OYS	tsien-	O: tsin: T. NT: dzin: T: tshin: NT: 'ivin
0270 $\text{the QYS}$ tshje: K, O, TD, T: tshi; TD: tshi, tshe; NT: 'tshi;			-		
Kbr: tciysi, tciysä				5	
0821 ± QYS tshjet O, TD, NT, MT: tshir; TD: tshir; NT: 'tshir;	0821	七	QYS	tshjet	
MT: tshi			-	5	
0880 錯 QYS tshâk NT: 'shig	0880	錯	QYS	tshâk	NT: 'shig
It seems possible that 錯 here has been misread as 昔 (QYS sjäk) or	It	seems	possib	le that 錯	here has been misread as 昔 (OYS siäk) or
some such word.			-		

0039	坐	QYS	dzuâ:	NT: 'dzwa
0348	字	QYS	dzï-	<b>TD:</b> dzi, <b>'dzi</b>
0494	就	QYS	dzjəu-	K, DA: dzi'u; <b>O, TD: 'dzi'u</b>

0797	盡	QYS	dzjen:	TD, FP, P: dzin; <b>TD: 'dzin, 'dzin</b> , dzin; Kbr:
1100	<del>ر در</del> ر	01/0		tsīmnä
1123	寂	QYS	dziek	C, NT: dzig; NT: 'dzig, jig; T: tshig
0255	西	QYS	siei	C, O: sye; TD: se; <b>NT: 'she</b> ; Kbr: sī
0350	司	QYS	sï	S-T: s'i
0823	悉	QYS	sjet	K, TD: sir; <b>NT: 'shir</b> ; Kbr: sīrä
0906	相	QYS	sjang-	K, O, TD, T: syang; T: syong; <b>NT:</b> zho, <b>'zho</b> ; P: :
				Velars and Laryngeals
0223a	怪	QYS	kwăi-	Pb: *怪 T: 'gwa'e "to blame"
0561	檢	QYS	kjäm: <sup>3</sup>	S-T: kem, k'em
0878	各	QYS	kâk	O: kag, 'kag
0961	絳	QYS	kång-	S-T: k'ang
0094	苦	QYS	khuo:	TD, T: kho; DA, P: khu; NT: 'khu; Kbr: khū
0519	ff.	QYS	khjəu	TD: khe'u; <b>O: 'khe'u</b> ; Kbr: khyūvä, kyū
0377	期	QYS	gjï	DA: 'gye
0520	求	QYS	gjəu	C: gi'u; <b>TD: 'gi'u</b> ; Kbr: khyūvä
0262	慧	QYS	yiwei-	TD, NT: hywe; NT: 'hywe, 'hye
0429	毫	QYS	γâu	TD: 'he'u
0552a		QYS	yăm:	DA: h'am
0754	現	QYS	vien-	O, TD: hyen; T: hyan; <b>DA: 'hyen</b>
0896	黃	QYS	γwâng	T: hwong; <b>NT: 'ho</b> ; Kbr: hvā:
0962	降	QYS	γång	K: 'heng; Kbr: ham:nä, ohaấm:nä, hamnä
0969	學	QYS	γåk	NT: 'heg, 'hog
0978	恆	QYS	γ̂əng	C, O: heng; K, O: hing; <b>TD: 'hing</b>
1024	行	QYS	yong	<b>TD:</b> 'heng; T: heng; <b>O</b> , <b>TD:</b> 'he; <b>NT:</b> 'he'u;
	13		88	DA, P: he'i; Kbr: he:
0104	呼	QYS	xuo	TD: 'ho
0139	虚	QYS	xjwo	K: he'i; <b>NT: 'hye</b> ; DA: hyi; P: hi; T: hu; <b>NT:</b>
5157	/995	×15		' <b>hyu</b> ; Kbr: hyū:, hyū
0882	惡	QYS	?âk	K, TD, T: ?ag; <b>O, TD:</b> ' <b>?ag</b>
0002		×10	iun	11, 12, 1. 10g, <b>0, 12</b> , 10g

In examining these data, we note immediately that the largest class of examples comprises Chinese syllables which are generally thought to have had labiodental initials in the underlying forms of Chinese. The Tibetans tended to represent these sounds as p(w), ph(w), b(w), or hw. And it is important to note in this connection that OT had no labiodental series. In these cases the transcribers were struggling to apply their script to sounds they did not possess in their own language. Almost as numerous in number as these labiodental transcriptions are those directed at the Chinese velar/laryngeal series. And it seems particularly pertinent that the majority of these cases involve the QYS initials  $\gamma$ - and x-. Where these have escaped palatalization in the modern

northwest Chinese dialects, they are invariably realized as velar (rather than laryngeal) fricatives. It seems not unlikely that they were phonetically velar in earlier times. On the other hand, WT h most often corresponds to laryngeal fricatives in the modern Tibetan dialects, and it is probable that the OT value was laryngeal rather than velar. Thus, the combination 'h- which we encounter so often in these transcriptions may well represent an effort by the Tibetans to signal an unfamiliar phonetic feature in the Chinese target forms. Another Chinese initial class which is well represented in our examples is the palatals. Here we may wonder if our Tibetan spellings such as c, ch, and jare intended to signal a difference between palatals or pre-palatals on the one hand and alveopalatals on the other. To cite a modern parallel, the palatal series in the modern Lhasa dialect strikes me as rather similar to the English alveopalatals and as noticeably different from the modern standard Mandarin Similar possibilities suggest themselves for the sibilants and palatals. retroflexes. Yet another striking feature of the data as a whole is the rather large number of Chinese syllables with voiced or murmured (i.e. zhuo 濁) initials. We must wonder if the phonetic quality of "voicing" in OT on the one hand and in the underlying Chinese dialects on the other was not rather different.

In summary, the function of 'a-chung in these forms would seem to have been to alert readers to the fact that the Tibetan consonant letters to which 'achung was attached were not to be pronounced in their "normal" way. There is no evidence here that 'a-chung represents either "nasalization" or, for that matter, any other common phonetic feature. And the particular idea that 'achung was somehow inherently nasal encounters further and even more vexing obstacles in examples such as the following:

0172	乃	QYS	nậi:	<b>K: 'ne'i</b> ; TD: 'de; DA, P: 'de'i; Kbr: dayi	
0608	難	QYS	nân	O: 'dan; <b>T: 'nan</b>	
0973	能	QYS	nəng	K, TD: 'ding; K: 'dɨng; <b>O, TD: 'ning; O:</b>	
				'neng; T, P: ning; Kbr: dimnä	
1151	農	QYS	nuong	C: 'nong; ZC: 'dong	
0815	愍	QYS	mjen: <sup>3</sup>	TD: 'myin	
1064	名	QYS	mjiäng <sup>4</sup>	O, TD: meng; K, O, TD, T: myi; K, TD, NT:	
				mye; K: myi; <b>NT: 'mye</b> ; T: me; Kbr: mye	

Here we have cases where Chinese nasals are rendered as OT '*n*- and '*m*-. Are we really to suppose that these combinations are intended to represent "nasalized nasals" or "prenasalized nasals"?! That the underlying Chinese consonants had what struck the Tibetans as special features of some sort seems very likely, but we can hardly imagine that nasalization is the feature indicated by '*a-chung* here.

But what of the numerous and often cited cases, alluded to above, where '*a*chung + consonant combinations probably really do stand for prenasalized consonants in Chinese? Can we not, for sentimental reasons, retain the hitherto popular theory that '*a*-chung represents the nasal feature here? This is of course a possibility; but is it not simpler and more consistent to assume that the underlying Chinese sounds here required special graphic representation, just as those in the examples cited above must have done? Why need we set up a special class of "transcribed nasals" in these and only these particular cases?

## **3 OT TRANSCRIPTIONS OF SANSKRIT**

WT conventions for transcribing Sanskrit are fully codified and have frequently been cited by those who have hitherto discussed the nature of 'achung. OT transcriptions of Sanskrit, which often differ markedly from their WT counterparts, are not so well known. Our information on them comes in small part from occasional, isolated examples in early texts and in greater part from a Dunhuang manuscript now held by the Bibliothèque Nationale and catalogued as Pelliot tibétain 849. This text has been studied in detail by Hackin (1924). Facsimiles are available as plates 233-239 in Spanien and Imaeda (1978-79, vol. 1). The manuscript contains a rather large number of sample transcriptions of Sanskrit and is also supplied with a set of directions outlining recommended transcriptional renderings of individual Sanskrit sounds (i.e. lines 94-98). The following are those recommended forms which contain the letter 'a-chung as a pre-consonantal (or, in one case, subscribed) element. Each item is accompanied by a selection of illustrative examples from the text as a whole. In several cases, no actual applications of the recommended rendering appear in the text material. 2A-chen is not separately transcribed in these examples.

Tib. ' $\mathbf{g} = \text{Skt. } \mathbf{gh}$  (vs. Tib.  $\mathbf{g} = \text{Skt. } \mathbf{g}$ ), no examples Tib. ' $\mathbf{dz'} = \text{Skt. } \mathbf{jh}$  (vs. Tib.  $\mathbf{dz} = \text{Skt. } \mathbf{j}$ ), no examples Tib. ' $\mathbf{d} = \text{Skt. } \mathbf{d}$  (vs. Tib.  $\mathbf{d} = \text{Skt. } \mathbf{dh}$ ) pu-'da-ri-ka pyïn-'da sid-ti Skt. pindasiddhi Tib.  $\mathbf{n}$  (' is subscribed) = Skt.  $\mathbf{n}$  (vs. Tib.  $\mathbf{n}$  = Skt.  $\mathbf{n}$ ), no examples

Tib. ' $\mathbf{d} = \mathbf{Skt.} \mathbf{d}$ (Skt. $\mathbf{dh}$ to be rendered by Tib. $\mathbf{th}$ )						
'de-ba no-pyi-ka	Skt.	devanopika				
'dag-khyi-na 'dzam-bu-ti-pa	Skt.	dakșiņajambudvīpa				
pur-ba-'dï-pa ar-rda-tsan-tra	Skt.	pūrvadvīpārdhacandra				
' di-ba tsag-kra	Skt.	dvīpacakra				
'de-ba-lo-ka	Skt.	devaloka				
pur-ba ' du'i-sha-ta ba-ri-sha a-'i-ba	Skt.	pūrvadviśatavarsāyuh				
'di-ba	Skt.	deva				
'da'-sa-ku-sa-la	Skt.	daśakuśaka-				
'das-sa-a-rta a-rtu	Skt.	daśārthārtho				

Tib. $\mathbf{b} = \mathbf{Skt}$ . $\mathbf{b}$ (vs. Tib. $\mathbf{b} = \mathbf{Skt}$		
na-mo-'bu-tha-yā	Skt.	namobuddhāya
'bu-tha-sa-yam-'bu-tha	Skt.	buddhasvayambhūta
'bri-ya-spa-tï	Skt.	brhaspati
tsa-tur-'bar-ma-bya-ha-ri	Skt.	caturbrāhmavihāra
'ba-le-ra-dza	Skt.	bālirāja
'byin-ba'i-sa-ga-ra-dza	Skt.	bimbacakrarāja

Tib. ' $\mathbf{zh}$  = Skt.  $\mathbf{y}$  (Tib.  $\mathbf{zh}$  not to be otherwise used in the system), *no* examples

Tib. '**b**' (the second ' is subscribed) = Skt.  $\mathbf{v}$ , *no examples* 

In addition to the recommended transcriptional usages, there are many "irregular" forms in the manuscript. Those involving pre-consonantal '*a-chung* are tabulated below, with illustrative examples for each:

Tib. $dz = Skt. j$		
tan-tra ma-ya ' dza-la	Skt.	tantramāyājāla
'dag-khyi-na 'dzam-bu-ti-pa	Skt.	daksiņajambudvīpa
'dzam-bu-tri-pa tri-ko-na	Skt.	jambudvīpatrikoņa
na-ga-ra-'dza	Skt.	nāgarāja
a-na-'dza-ta-ka	Skt.	aņdajātaka
a-sïd-tï-byen-'dza-na lang-krï-da'	Skt.	aśītivyañjanālaṃkṛtaḥ

Tib. 'ty = Skt. dhy'tya-na-sïd-ti

Tib. ' $\mathbf{th} = Skt. \mathbf{dh}$ ka-ma-'tha-du

Skt. aśītivyañjanālam Skt. dhyānasiddhi Skt. kāmadhatu ru-pa-'tha-du a-ru-pa-'tha-du

Tib. ' $\mathbf{d} = \text{Skt. } \mathbf{dh}$ ba-dzra-ra ' da-ro-hang

Tib. '**g** = Skt. **g** 'gu-ya-ti-la-ka 'gu-dzya sa-ma-dza mu-la tan-tra 'gu-ya-kar-rba-tan-tra a-pa-ra-'go-da-a-ba-rï mang-'ga-la 'de-ba 'ga-ti

Tib.  $\mathbf{g} \mathbf{y} = \mathbf{S} \mathbf{k} \mathbf{t}$ .  $\mathbf{j} \mathbf{\tilde{n}}$ 'gya-na-sïd-tï 'gya-ni-e-ka-tsa-

Tib. **'brï =** Skt. **mŗ** ba-dzre-am-'brï-ta tan-tra

Tib. '**z** = Skt. **y** 'zo-go-'o-tro-tan-tra (cf. zo-gi-ni tan-tra

Tib. '**dz** = Skt. **y** 'dza-ma ra dza' -'dzo-gi-

Tib. ' $\mathbf{g} = \mathbf{S}\mathbf{k}\mathbf{t}$ .  $\mathbf{k}$ u-tra-ra-ang-'gu-ra

Tib. '**b** = Skt. **v** 'byi-ro-ta-ka-ya 'byi-snyu 'ba-yo 'bying-srag a-no-sta-na 'da-sa pa-lo-'byi-phu 'da-'ba-tïng-sad-'brï-ta-da-ra-ka- sid-ti

Tib. '**b** = Skt. **bh** pan-tsa ma-ha-'bu-ta sa-ya-'bu-'dza-ta-ka

- Skt. rūpadhātu Skt. arūpadhātu
- SKI. arupadhatu

Skt. vajradharo'ham

- Skt. guhyatilaka guhyasamājamūlatantra Skt. Skt. guhyagarbhatantra Skt. aparagodāvarī Skt. maṅgala Skt. devagati Skt. jñānasiddhi Skt. jñāniekāksa-Skt. vajrāmrtatantra Skt. vogottaratantra Skt. yoginītantra) Skt. yamarāja Skt. -yogi-Skt. uttarakuru Skt. virūdhaka Skt. visnu Skt. vāyu Skt. -vimśakānusthāna Skt. daśabalovibhū Skt. dvatrimśat-Skt. vrddhadārakasiddhi
  - Skt. pañcamahābhūta Skt. svayambhūjātaka

Tib. '  $\mathbf{tr} = Skt. dr$ pan-cin-'trï-yā

Skt. pañcendriya

What is immediately noticeable in this material is that it all involves Sanskrit voiced sounds of some sort. Though OT had voiced consonants, the Tibetans felt that in many cases the pertinent letters should be accompanied by '*a-chung*. This difficulty with foreign voiced consonants seems to mirror the situation found in the Chinese data. I believe the same principle is to be seen in the rather large number of forms in the text where '*a-chung* occurs in syllable final position. Compare the following examples:

pan-tsi-'bu-tha'	Skt.	pañcibuddha
shi-da'	Skt.	siddha
'bu-da'	Skt.	buddha
ar-rta-bya-ka-ra'-na	Skt.	astavyākaraņa
pan-tsa skan-da'-byi-tsa-ra-na	Skt.	pañcaskandha-vivaranatantra
tsa-kra man-da'-la	Skt.	-cakramaṇḍala
a-pa-ra-ko-da' pan-ja-sa-ta	Skt.	aparagodāpañcaśata-
a-pa-ra ko-da'-a-ba-ri ra-dza	Skt.	aparagodāvarīrāja
'dza-ma ra dza'	Skt.	yamarāja
tre-za'	Skt.	tejāķ
man-da'-la	Skt.	maṇḍala
dza-ra za'-ta-ka	Skt.	jarajātaka
'da'-sa-ku-sa-la	Skt.	daśakuśaka-

Here we must recall that, in the actual Tibetan forms, 'a-chung is written directly to the right of the initial consonant letters. What we see here may be nothing more than a variation on the types of renderings exemplified in our preconsonantal 'a-chung data, with 'a-chung here placed after the affected consonant rather than before it. There are of course many other interesting points in the material. The Sanskrit labiodental v is singled out for special treatment, as Tib. 'b' in the recommended spellings and as 'b- or 'by- in the actual text examples. As noted by Hackin (1924:102), Skt. y seems to have had a strongly consonantal or fricated realization in the underlying pronunciation of the text, and the Tibetans responded to this with '- + z or '- + zh. Skt. n, a sound quite foreign to the Tibetan sound system, is supposed to be transcribed with subscribed 'a-chung, etc., etc.

In the end, what is of primary concern to us here is that it is well nigh impossible to assign 'a-chung a phonetic value in all this material. It seems more likely that it is functioning as an abstract graphic marker for things the Tibetans found foreign or unusual. As for the possibility that 'a may have

180

been a nasal of some sort, I find four examples in the data which might support such an assumption:

pu-'da-ri-ka	Skt.	puṇḍarīka-
sa-ya-'bu-'dza-ta-ka	Skt.	svayambhūjātaka
a-'dza-na-sid-ti	Skt.	añjanasiddhi
a-sid-ti-byi-'dza-na	Skt.	aśītivyañjana

But these pale before the massive body of examples, cited only in part above, where no such explanation is possible. And they disappear entirely when we realize that each of them is explainable as an example of the familiar marking of voiced consonants noted earlier.

### **4** CONCLUSION

Let us now summarize our findings. It seems clear that, when we view the Chinese and Sanskrit transcriptional corpora as a whole, the letter 'a-chung cannot be convincingly explained as representing a particular sound. Neither "nasalization" nor anything else can explain all the varied foreign elements represented in our data by 'a-chung plus following consonants. The only possible and reasonable conclusion would seem to be that 'a-chung functioned as an abstract marker which modified basic Tibetan consonant letters, alerting the reader that the usual or "normal" readings of these letters would be inappropriate. In other words, 'a-chung in the transcriptions was a diacritic. The implications of this conclusion now lead us back to the problems mentioned in our introduction.

## 5 PRE-CONSONANTAL 'A-CHUNG IN NATIVE TIBETAN TEXTS

In writing systems in general the concept of the diacritic is rather abstract. For a diacritic is in essence a purely graphic device, used to modify other graphic elements. It has no phonetic value of its own. On the contrary, by adding it to some other element, we signal that that element does not have the value normally associated with it. The material reviewed above indicates beyond doubt that the early Tibetans were aware of the diacritic as a concept and were able to use '*a-chung* in this way in transcribing other languages. In a sense, this point should not surprise us, because, as indicated above, most tibetologists already believe that, in the spelling system of WT, '*a-chung* functioned diacritically in certain environments. But our observation is necessary, because the majority of these same individuals have not viewed **pre-consonantal** '*a-chung* as a diacritic in native Tibetan texts.

In recent years there have, however, been two important exceptions to this. In discussing the relationship between WT '*a-chung* + consonant complexes and the prenasalized obstruents of the Ndzorge Sæme Xvra Amdo dialect, Sun (1986:113-114) addresses the fundamental question of pre-consonantal '*a-chung* in the following passage:

... if the prescript "a-ćhuñ" really represented prenasalization in CT [= Classical Tibetan], why didn't the originator(s) of the Tibetan script use a NASAL symbol for its representation? It is to be pointed out, in response, that the nasal phase of a prenasalized consonant BY DEFINITION must be of the same place of articulation as the oral phase of that consonant; in other words, its supraglottal articulation VARIES, depending on what comes after it (e.g. /nb/=[mb], /ng/=[ng], /ndz/=[= ndz], etc.). In fact, speakers of languages with true prenasalized consonants may not even be conscious of them as anything other than inseparable units. It would therefore be somewhat counterintuitive to use, say, the DENTAL nasal symbol to represent this prenasal element in all places. All that was needed was something to mark the prenasalized series of CT onsets as DIFFERENT from their nonprenasalized counterparts. On the condition of making use of symbols already in the alphabet instead of creating special symbols, "a-chun" seems to be just about the most befitting indicator of this prenasalization feature. "a-ćhuñ", in the first place, never seemed to have any distinct phonetic value. Unlike the other letters in the Tibetan alphabet, its function was NEGATIVE --- the mark for the ABSENCE of the glottal stop... Accordingly, "a-ćhuñ" came to be used as a sort of "all purpose" orthographic device ....

A very similar stance has been adopted by Sprigg (1987:52-53). He remarks:

The  $\Im$  symbol is underemployed in its syllable-initial use...compared with almost all the other members of the (30) gsal-byed sum-cu set; Jäschke 1881/1934, for example, has only 67 entries for '- as against 140 for k-, to which may be added 61 for ky-, kr-, and kl-, and 233 for k- prefixed by d-, b-, r-, and s-, making a total of 434. Only w- has fewer entries than '-, with a mere 10. The symbol '-, therefore, is well placed to double in some other function, such as homorganic nasality, to which the nasal-consonant symbols ng-, ny-, n-, and m- are ill-suited because each is associated with a single place of articulation, velar, palatal, dental/alveolar, and bilabial. ... the under-used a chung has, in my view, been pressed into service for the additional, and linguistically sophisticated, task of symbolizing homorganic nasality of five different locations [nn- nn- m-], not on phonetic grounds but on grounds of economy in symbolization. I see no need to search for a phonetic link between this prefix use of '- and its initial and suffix

uses...; the link is orthographic, following the principle of economy in symbolization.

In the principles they espouse, these two passages not only agree with each other in their stance towards WT graphic usage, they also accord completely with our findings on OT transcriptional practice.

Let us review what we have learned here. From Sun in particular we gain the important insight that native speakers of languages possessing prenasalized obstruents do not by any means necessarily view these sounds as *combinations* of anything. On the contrary, such elements are more probably perceived as *unit phonemes*, standing in direct contrast with other units in the sound system, and in particular with those non-prenasalized obstruents which happen to share with them other features of manner and point of articulation. Viewed in this light, it would be entirely natural for speakers of a language having, for example, both /d/ and /nd/ to choose from some other writing system a graphic symbol, such as d, for the former phoneme and then to create for the latter one a new symbol, 'd (i.e., "modified d," "the other kind of d"). The insistence of outsiders, such as foreign tibetologists and linguists, upon analyzing prenasalized consonants into constituent elements of nasality + oral occlusion is in all likelihood a non-native and counterintuitive one.

In summary then, we concur with the views of Sun and Sprigg that 'achung was an "all-purpose orthographic device," utilized for "economy of symbolization," whether we speak of WT or OT, of native texts or transcriptional texts. The long quest for the "pronunciation(s) of 'a-chung" turns out to have been a search for the will-'o-the-wisp. And with Sprigg in particular we must agree that earlier schemes for establishing a phonetic link between all known uses of 'a-chung have been unnecessary and misdirected.

#### REFERENCES

- CHAN, Marjorie K.M. 1987. "Post-stopped nasals in Chinese: an areal study." UCLA Working Papers in Phonetics 68: 73-119.
- HACKIN, Joseph. 1924. Formulaire sanscrit-tibétain du Xe siècle. Paris.
- MASPERO, Henri. 1920. "Le dialect de Tch'ang-ngan sous le T'ang". BEFEO: 20.1-124.
- SPANIEN, Ariane and Yoshiro IMAEDA. 1978-79. Choix de documents tibétains conservés à la Bibliothèque Nationale. 2 vols. Paris.
- SUN, Jackson T.S. 1986. Aspects of the Phonology of Amdo Tibetan: Ndzorge Śæme Xyra Dialect. Monumenta Serindica No. 16. Tokyo.
- SPRIGG, R.K. 1987. "Rhinoglottophilia' revisited: observations on 'the mysterious connection between nasality and glottality". *LTBA* 10.1: 44-62.
- TAKATA, Tokio 高田時雄. 1988. Tonkō shiryō ni yoru Chūgokugo shi no kenkyū 敦煌資料による中國語史の研究. Tokyo: Sobunsha.