

Musical score for 'La La La' featuring five vocal parts: Soprano (S), Alto (A), Tenor (T), Bass (B), and Basso Continuo (BC). The score includes lyrics 'La La La' and dynamic markings like ff (fortissimo) and p (pianissimo).

R e. : 26 S * b r 2005 / A u * : 16 J l 2006 / P b. T i. : 10 A 2006
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A a T T r r a r T e T
S S ff e (., a rr T e T arr
a s i Tea T e Tr r T e
Tea T e wa u . T e T) a a ar a a
Tu ar a r arr a a 4 £ 4 r , a
r Tea T e r T a T T T r , T e T
a r T e a a T e T e T r T e h
1, 'r ff r e T e ffie a ar a
a r . Tu S S ff e r T e T b
var r u a ar a ar a T T u T r T
u a T e T u ar T e (a ra
ff e). Tu a n T r l a a T b r u
rat Tr r ab a , a 'a u a ra
ff e T e T r a T e T e a T e .
In 2, a * T - T ar a a , a
T e ffie ff e T ar Tea T e T u S S
ff e a T e . In r r a T T u r a ba

D. Zma X. ZmT (&)
D. Zma T P dTT , P. U. r.,
B. 100871, C. a
a: 104@ . .

X. Zn^T
S a K Lab Tra Tr T CT N r T e e
a L a , B NT a U r ,
B 100875, Cu a

X. ZnT
L an a CT T Lab Tra Tr ,
Ca a NT a U r , B 100037, C a

D. Zn a
Ha 'T T ad a r CT , Ha 'T 310036, C a

G. P W r a T E La a a
D * ar a T P a T T , U r . T B T T a,
B T T a 40127, I a

T₀ b a T₀ - b acc T₀ a r r a d - c T₀
au T₀ r e .

K, S, T, ff, V, a, ardu, S, a, a, T
La, ra, ff, A, T, h, au, T, a
R, r, a, T, a, au, T, a

I.

FTr ca , a rT 'a b a T e T
a 'a 'a 'T 'a rr 'a 'a a T a T

TrTe a ha da ar r Tr b Tr
w at Trr a a a Ta a T a
r T a A a T w , 'T r,
r a ar a Ta T a, a T w r a T
fi a T, 'r e , Tr a T T b a -
la (., HT 1993b; Wadur WTb r 2004;
Zo ba a Br T 1995). E a a
- arra (., a rL bb a. 1999, 2004),
ar a ca b a a Ta ar a
r r T f u ar (b War a. 2005).
I a l w , 'T r, T a a Tr T a
a a a a T ar a Tr a ar a T a
a b r T r a T r ar a a arra T
a a b r T ff r a T a a a a f i c f i e l T e a
T e a a r a a a r T a T a . I a T
a a r a a a r a T a S a T a f f e T a T e a
T a

a T a a all Tr (., ' ar), r ar -
T w r h Tr ar ar a va . T a
rura T w r h ar (' r e) T
ar a a h a a T T ar (a TR b a a 1997). NT a U a (1994)
T ra wa S T ff a T Tb a
wa a T a T a r a a fia T . T u
va a a lar T w r T r ; e ' wa Par-
e a wa T ' a a T a fia T T e a
r r a w r , a T T T T a r i r
a T T ar . h a T T
a T a T w a r fia T T ' r ,
r e a wa a T w r
r r a r T a r a r a r a ar ca a T e r
a w S T ff FTr , NT bar a ST -
(2003) a ' a r a a Tr ' T T T T T
a r a r a r a a a i h r a a
T T T T w r ar . A S T ff a r a T
w r r a T a T b r .

La ca a ar a r a , par a
ar r a a a a a a a a b r T
Qu adu ra, par a
b r Tr a T a f u a r a a a a
a a . Tu a b r T () a a a a
ar r a T a T a . Tu r T (RT) a
T r r r T a a r a a r . Tu a a
RT a RT £ a a a a
T a a a T a a a a a a
ffie a T r T a a , b r r T b a
T b r a a Tr affie a a a

R e a l , a l a r b T T . a c . * T r a u a
ra a T T * a r a l l a a r a * r T e a a a
a r d u (. , Br T T a . 2002; H T T a W T
1998; Ma T a . 2001; W T a . 1989; W T T a
a L e 1999, 2003; Z a S u b r 1997;
C u a 1999, T r a T r .) A c T r a T b a
ra a T i , w T a a T b a a b a * a r a
a r a l l a r a a , b b b r a a a r a
a a a T b a r a a a a a a a
a Tr a a T r . O n a a a a a a
e , a b T a a T T e r . I b a r
a r T b a r a T r , a * a r a l l * r T e
a a T b a T a r , a T r a r a l l . I b a r
c a a T * F T r T a r a T r , a b a a a
a a T b a r , a T r a r a l l * r T e a T
a b a r a T b a r , T T b a a b a T
a a T b a a r , a a T b a r T a T
a r a T b a b a r a T b a T a T a T
T a a T b a b a T b a T a T a T a T
T a r a T b a b a r a T b a r T a .

CE r a ra E .1. S ard
ar ar 4 £ 4 r , a r ar T
T b ar r ra Tr r r T . CT-
r e ff T b a cta acTr e T
Tr r T a b a r T a T a ar
Tea T (ra T e ra fi a T). I a a
T T u ar a ra ar r a e T a a
r r a a r a , u S T ff a b Tb r ,
b u ff T b a fl a b a a T
u re ardu. I u T r , u a a T Tr-
a T a T u Tra T T a , u
u ra a T u da a a ardu CT
ca ff r a n T u S T ff a ff r a
r T T u ardu a . S u fical , b ea
a T u ra T u r T u , u re
T T a T u a b a rr u - T T r
T r u b Tr u ar Tea a a re T u .
I u S T ff T r u ar a b u
a a T u T u a T u , u u ff
u b a T u Tr a e T b a ra
aerT ra . CE r i , a ar a ar a a , a ,
r u T r T u , u a acT a a r a T

4	3	3	4
2	1	1	2
2	1	1	2
4	3	3	4

F . 1 Tu 4 £ 4 ar a b fu T T ar Tea T a
ard arra . La a cumb r r a b T ar e -
- a . Tu numbers ca b ar Tea T ea Tr eria -
T T b e a rá fi a T . Tu fi a T erT a b
T a i re a rá

Tu ff e T b a r r a r a r a . T a ffi-
e T b a r a r a r a r a . T a
ff e . T T a , ardu a . ff r a
r T ffi r r a T e . r a 1 a
Tr r T a a b u r r a r a . ff e a fl -
e b ardu ffi e . I a a cat r lab

ar a T ar . Tu Tr ar ar a T ar a
ar Tr r ar T ar , ar a S T ar
T ar a . A M ar a F . 1, u 4 £ 4 r
r a T ar , au Tr a T u c o r e
T u r T u c o r a fia T ar . A ar T ar
ar a ar T u Tr r T ar a T ar a .
Tu ar Tr T ar a T ar , u d u a 6, 11
Tr 16 a a . Tar T ar T ar b ar
T ar a Tr a T ar a T ar T ar
a T ar . Tu r r T ar a ar , T ar r
a T ar , ar a T ar a T ar
r a T ar a T ar a T ar a ar a
a T ar a T ar a T ar a ar a .

In a . T , a 1 a 2 ar a , u r r r a
a T ar a ar a T ar a T ar T ar
(ar T ar a). Tu ar T ar T ar
a T ar a u 3 ar a b ea a T
ba a a T ar a b r T ar a ar T u u
ar a . Tu a a r T ar T ar a ar
T ar a a T ar a u u r u T ar a
a T ar a ff

The effect of T on tea taste was significant ($F(3, 129) = 133.06, P < 0.001$), and the interaction between T and tea type was also significant ($F(12, 387) = 1.82, P < 0.05$). The main effect of tea type was significant ($F(3, 129) = 133.06, P < 0.001$), and the interaction between tea type and T was significant ($F(3, 129) = 133.06, P < 0.001$). All the effects of T were significant ($P < 0.001$), except for the interaction between T and tea type ($P = 0.05$).

a 1 M a RT () a ar rrTr (a § SD), a
 1, 2 a 3 ar a 1, a 4 (T T) ar a

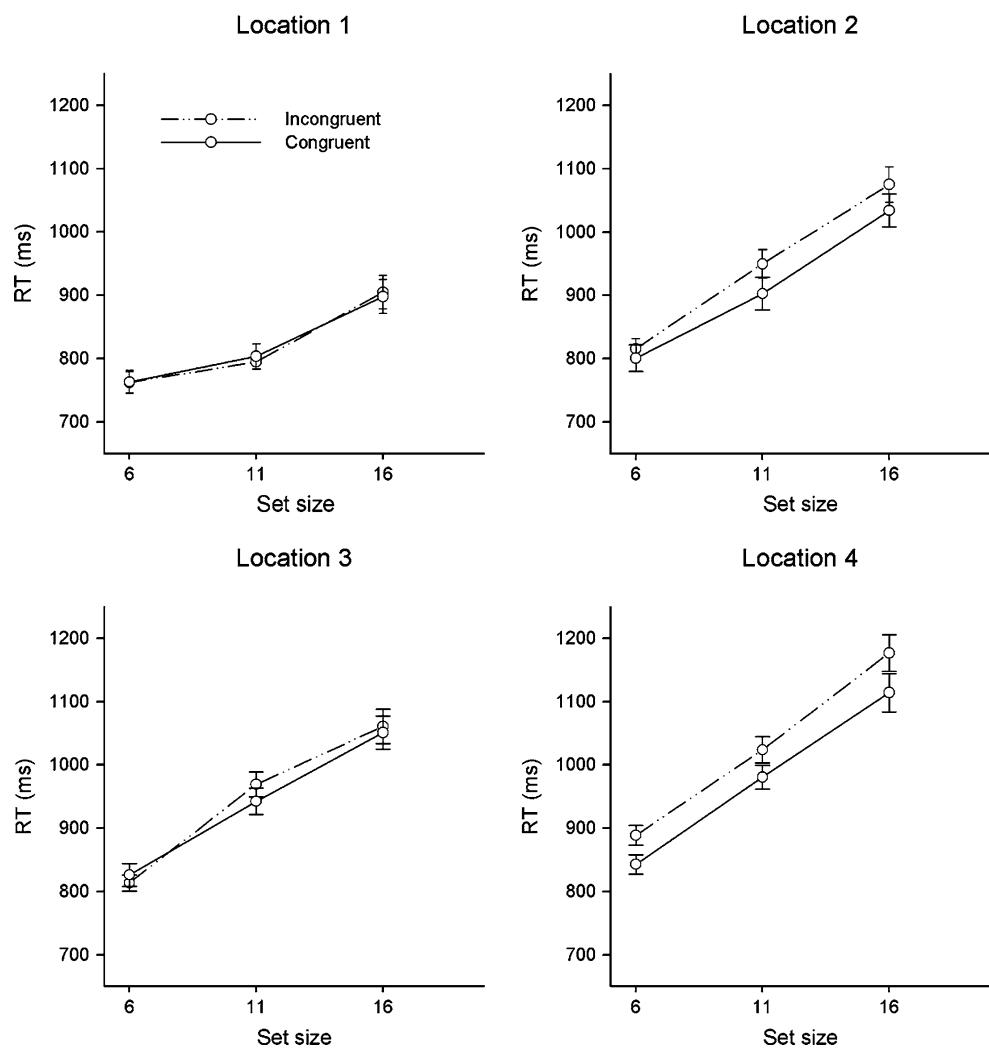
S	ard	S	C	T	r	c	L	T	e	a	T	
							1	2	3	4		
1	6	C	T	r	c	L	497	§ 31 (3.1)	503	§ 37 (1.8)	524	§ 32 (2.9)
							509	§ 30 (3.4)	515	§ 27 (5.5)	527	§ 22 (5.7)
	11	C	T	r	c	L	498	§ 35 (2.3)	516	§ 45 (3.1)	566	§ 36 (3.4)
							514	§ 22 (4.7)	546	§ 40 (5.2)	565	§ 35 (6.3)
	16	C	T	r	c	L	513	§ 47 (2.1)	536	§ 45 (3.1)	578	§ 46 (3.9)
							521	§ 46 (3.6)	551	§ 49 (5.7)	588	§ 48 (6.0)
	2	6	C	T	r	c	557	§ 31 (2.1)	594	§ 37 (2.9)	642	§ 32 (4.2)
							559	§ 30 (4.7)	628	§ 27 (8.6)	660	§ 22 (7.0)
		11	C	T	r	c	595	§ 35 (1.8)	723	§ 45 (2.9)	793	§ 36 (3.9)
							611	§ 22 (3.4)	760	§ 40 (8.3)	824	§ 35 (7.3)
		16	C	T	r	c	641	§ 47 (1.3)	940	§ 45 (6.0)	951	§ 46 (8.9)
							647	§ 46 (5.7)	963	§ 49 (8.1)	942	§ 48 (9.1)
							1,235	§ 30 (5.7)	1,305	§ 36 (5.2)	1,313	§ 31 (3.1)
3	6	C	T	r	c	L	1,218	§ 29 (2.1)	1,303	§ 26 (4.7)	1,253	§ 21 (2.3)
							1,317	§ 33 (4.7)	1,468	§ 44 (6.8)	1,468	§ 34 (7.4)
	11	C	T	r	c	L	1,259	§ 21 (7.0)	1,543	§ 39 (5.7)	1,518	§ 34 (4.7)
							1,539	§ 46 (8.6)	1,627	§ 43 (8.3)	1,624	§ 45 (10.2)
	16	C	T	r	c	L	1,546	§ 45 (9.4)	1,711	§ 47 (8.9)	1,652	§ 46 (7.0)
							497	§ 16 (2.3)	509	§ 18 (2.1)	505	§ 17 (2.9)
	4	6	C	T	r	c	504	§ 16 (4.2)	512	§ 16 (1.8)	514	§ 16 (2.3)
							497	§ 14 (2.1)	499	§ 13 (1.8)	509	§ 14 (4.4)
		11	C	T	r	c	522	§ 18 (4.7)	526	§ 14 (1.6)	515	§ 18 (2.6)
							499	§ 16 (2.6)	503	§ 13 (1.3)	517	§ 16 (2.1)
		16	C	T	r	c	522	§ 23 (4.2)	523	§ 17 (3.9)	528	§ 14 (2.6)
											530	§ 16 (3.4)

T r off re ar Δ Tea T . F r 3 M ra
 a RT T r a off re Δ Tea T , Δ Tea
 T r ard Δ MTr T r, Δ a rac Te T T r -
 a, Δ Tea T a ard Δ a a T a fia, $F(6,$
 $129) = 2.38, P < 0.05$, a ea a ba ba ra ff
 a a fl a b ard ff a . S a T ff e r
 a ra T r T r a a r T a Tr a d a ard
 Δ , a ba a T a ra ff e r a b
 a off re T S a T ff e b a T r a
 a r T a . In ba a r, ba a ra ff e Tr
 ard Δ 1, 2 a 3 r 9.5, 23.5, a 87, r Δ
 a, a r a a ba Δ T ard a e T
 a r a .

Sara and rara Tr. Tr.
 rera ffraffra Tea Tr.,
 arera rera T. arera ac Tr., ar
 arera a ab arera ac Tr. A Tea-
 Tr. 1, rera ffraffra rera a Tr. a fi-
 can, $F(1, 45) < 1$, arera T. arera
 arera, $F(2, 45) = 1.35$, $P < 0.1$, Tr. Tr., $F(2,$

90) < 1. **S**₁ **T**₁ **a**, **a** **T**₁ **3**, **b** **r** **a** **a** **T**₁ **a**
ff **c** **T**₁ **r** **a****c**, $F(1, 45) < 1$, **a** **a** **T**₁ **ra** **T**₁ **T**
T₁ **r** **a****c** **b** **a** **rd****a****c**, $F(2, 45) < 1$, **Tr** **b**
 $F(2, 90) = 1.22$, $P > 0.1$. **T**₁ **r** **i** **a** **ca**
b **a** **b** **S**₁ **T**₁ **ff** **c** **a** **ab** **a** **a** **T**₁ **3** (**F**(**3**)). **A** **T**₁ **Tea** **2**, **b** **c** **a** **ff** **c** **T**₁ **r** **a**
a **a** **fica**, $F(1, 45) = 9.46$, $P < 0.005$, **b** **b** **ff** **c**
a **T**₁ **ra****c** **b** **a** **rd****a****c**, $F(2, 45) < 1$, **a** **Tr** **b**
 $F(2, 90) < 1$. **A** **T**₁ **Tea** **4**, **b** **T**₁ **b** **a** **ff** **c**
T₁ **r** **a****c**, $F(1, 45) = 23.37$, $P < 0.001$, **a** **b**
a **ra** **T**₁ **b** **a** **T**₁ **r** **a****c** **a** **rd****a****c**, $F(2, 45) = 6.85$, $P < 0.005$, **r** **a** **fica**, **a** **b** **T**₁ **b**
a **ra** **T**₁ **b** **a** **T**₁ **r** **a****c** **a** **a** **T**₁,
 $F(2, 90) < 1$. **F** **r** **b** **r** **a****a** **b** **T**₁ **b** **a** **T**₁ **r**
a **ff** **c** **a** **a** **fica** **a** **T**₁ **Tea** **4** **Tr****a****c** **1** **ard****a****c**,
 $F(1, 15) = 12.13$, $P < 0.005$, **a** **b** **2** **ard****a****c**, $F(1, 15) = 5.87$,
 $P < 0.05$, **a** **b** **3** **ard****a****c**, $F(1, 15) = 13.52$, $P < 0.005$,
a **b** **T**₁ **b** **a** **ff** **c** **a** **a** **ar****a****i** **ar** **r** **a** **T**₁ **3**
ard**a****c** (105²) **b** **a** **b** **a** **1** **a** **2** **ard****a****c** (17 a
30²), **r****a****c** (1).

F. 3 Tu RT £
 ardu a Tr Tr
 r a a r a
 T a T ar
 VTea T Ma T r
 ur ardu r



ErrTr ra Tr ra rac Tr r a a
 a r T a ANOVA, ar a a a
 b a ar a ac Tr, ar a ar T a T
 a T r a a ar a ar a ac Tr.
 Tu a ff T ar a a T a fia , $F(2, 45) = 1.26$, $P > 0.1$, a a a a rrTr ra r
 a T ff r a b a ar a . Tu a ff T
 a a fia , $F(2, 90) = 14.37$, $P < 0.001$,
 a rrTr ra b a a a a 16 (7.0%), T -
 a a 6 (4.9%), a a a a a 11 (5.4%).
 Tu a ff T ar T a T a a T a fia ,
 $F(3, 135) = 16.42$, $P < 0.001$, a a a a
 a a a a T a T a 4 (7.5%), T a T a T a T a 1
 (4.2%), a a a a a a T a T a 2 a 3 (5.6 a)

5.7%, $r^2 = 0.1$). The effect of Tr. r. on LTea_{Tr} was significant, $F(1, 45) = 15.71, P < 0.001$, while Tr. rrTr. LTea_{Tr} had no significant effect (6.7%) on LTea_{Tr} (4.8%). The Tr. b. had a significant effect on LTea_{Tr} , $F(3, 135) = 2.93, P < 0.05$, and Tr. b. LTea_{Tr} had a significant effect on LTea_{Tr} , $F(6, 135) = 1.20, P > 0.1$. Separately, Tr. b. had a significant effect on LTea_{Tr} , $F(1, 45) = 14.65, P < 0.001$, and Tr. b. LTea_{Tr} had a significant effect on LTea_{Tr} , $F(1, 45) = 14.12, P < 0.001$. The effect of Tr. r. on LTea_{Tr} was not significant (2.01%), $F(1, 45) = 5.62, P < 0.05$.

L _{ta} T _a	1	2	3	4
C _{T_a} r _a	474 § 11 (2.5)	485 § 10 (4.0)	492 § 8 (2.7)	505 § 11 (5.5)
I _{T_a} r _a	491 § 9 (5.3)	511 § 9 (7.8)	510 § 9 (8.7)	530 § 9 (8.7)

RT a r T T r a a i (489_a) 'a T a T -
r a a (510_a). Tu a rac T b a T -
r a a \Tea T a a T a fia , F(3, 90) < 1,
Tr 'ur - a a rac T b a T a r a ,
\Tea T , a a aro , F(3, 90) = 1.32, P > 0.1, a -
ca a 'a 'T r a ff e a T ar a u Tr a
T ' ar \Tea T , a T a ra 'a 'a ra
ff e Tr ar 'a 'a rac Tr . A T a r a fia
ff e a 'a a ff e T \Tea T , F(3, 90) = 26.97,
P < 0.001, a RT b a T a r a a i T r
\Tea T 1 4 (482, 498, 501 a 517_a, r a i).

ErrTr ra Tr r a T r a Tr r a T
 a r a T a ANOVA, a ard a a a
 b a ar a acTr, a ar Tea T a
 T r a a T a ar a acTr. Tu a
 ff T ard a T a fia , $F(1, 30) < 1$.
 Tu a ff T Tea T a fia , $F(3, 90) = 4.32, P < 0.01$, rrTr ra b a b a -
 a Tea T 4 (7.1%), T a Tea T 1 (3.9%),
 a b a a Tea T 2 a 3 (5.7 a 5.9%,
 r). Tu a ff T T r a a a T
 a fia , $F(1, 30) = 14.85, P < 0.01$, Tr rrTr
 a b a T r a T T (7.7%) a a b T -
 r a T T (3.7%). HT r, a a rat T
 b a T r a a Tea T , $F(3, 90) = 1.41$,
 $P > 0.1$, a b br - a a rat T b a T r -
 a , Tea T a ard a , $F(3, 90) < 1$, r a T
 a fia . Tu , b r i T rrTr ra a a a r -
 rTr b RT a a .

*In ar, h r i Tr rat Tr-ab a T
T r ea h S T ff e g r T Tr .*

$$RT = r b T_0$$

TTr T b T bl ba ff rae b
Sf ff a ff rae T r T ff r
Tr Tr T , RT rb T
rac Tr r aa , ad ar ea , RT
ad r ra a T T Tr a a a
Tr r, a T (Raaff 1979;
Jia 1994; Zhao & Kuan 1997). B ca
rac T b T r ea a a
ra T a fa , a r a b b r T
aa , T a a a T r a
a T r RT T T Tr ab

Tr ⁻ re a (ar a) Tr ar T ra Tr a

Tea-T_b. Tu = 0.1 a a r a r a T a 3
 (ard) £ 4 (Tea-T_b) £ 2 (Tr-r a e) £ 5
 (a A) ANOVA.

NT r'r a A, Tu a ff e T Tr r a a a
 a fia, $F(1, 45) = 15.51, P < 0.001$, T u a a
 ff e T a A, $F(4, 180) = 1106.12, P < 0.001$. Tr-r
 a A, Tu a rac T b a T r a a a a
 a a T a fia, $F(4, 180) < 1$, Tr u br - a
 a rac T b a T r a e, a A, a ard
 a, $F(8, 180) < 1$. Tu r u a a a a
 S_a ff e a T d a T r a A, ..., u
 u u RT Tu a ff e T Tea-T_b a a fia,
 $F(3, 135) = 127.66, P < 0.001$, T u a rac T b
 b a T r a a a a Tea-T_b, $F(3, 135) = 5.40,$
 $P < 0.05$. Br u br - a a rac T b a T
 r a a a a Tea-T_b a A a T a ar a all
 a fia, $F(12, 540) = 1.67, 0.05 < P < 0.1$,
 u a a r a e T S_a ff e a a Tea-T_b 2 a 4
 a u ab a e T S_a ff e a a Tea-T_b 1 a 3
 r a r a T aff e b r a T b a .

Tu RT r b T_b Tr-r a e Tr-ab a T_b
 T_b r a r a T a 2 (ard) £ 4 (ard)
 Tea-T_b) £ 2 (Tr-r a e) £ 5 (a A) ANOVA.
 Tu a a ff e T ard a a T a fia,
 $F(1, 30) = 1.18, P > 0.1$. Br u a ff e T Tr-r
 a a a u a ff e T a A r a fia,
 $F(1, 30) = 26.25, P < 0.001$, a a $F(4, 120) = 315.06,$
 $P < 0.001$, r a e a . Br u a rac T b a a

Tl̄-tr̄-e-wa-h̄-r̄-Tl̄-b̄-a-S̄-T̄-ff̄-e
Tr̄-b̄-ea-r̄-T̄-e-a-T̄-a-T̄-1-a-T̄-r̄
T̄-e-a-T̄-ar̄-a-Tr̄-b̄-T̄-a-e-T̄-a-a
ra-T̄-Tr̄-T̄-e-T̄-a-d̄-a-a-r̄-b̄-b̄
fu-a-T̄-b̄-.

Tu ab e T'a ra T S T ff e a u T -
rat Tr T T T a u u r i r T
r T S T ff e . I u T a T , a u -
T u r e r fi a T T T a T T
ar , a ra u a a T Tr u ar . Tu
a S T ff e T r ff r a T a T
Era , a u F T a , ha u a ra T
S T ff e Tr u ar u a a T a a
Tr T a a a T u a a a T
a , ra u r u a T ar T a T r .

Tu ac ha b . T u S a T ff e a b -
rac Tr-ab a T a T aff e b b ar-
' a re T a S a M da i
(2000) a LT a (2003) (a T PrTe Tr a.
1993) ' a ra T T a T r T T r
a re . I T b ha a a T a ca -
Tr ea (.,\ Tr r), T r e Orr
r r ha , a ardu b d b Tea T
T b a ar T r ab , S a T ff
T a T ff r b a a T a r r ea Tr Tr
T a r a .

A *an* r, T *ba* a *+* T *T*
an S *T* *ff* *a* *T* *r* a *+*
r *T* *a* (L a PrT Tr 1995; R b a
a. 1997). T *r* a *+* *au* *+* T *T* *ba* *+*
F *T* *ard* *+* T *b* *ard*
T, *ra* *+* *re* *+* T *ard* *+* T

fl ac b r *T a e T (., HTrT a
WT 1998; Cu la 1999). L 'r a *T a ,
d ar rE .3 wa u T aru a T
TrT r a a T r a r a r *paral T.
a re * Tr T r a a T r a T
T r aff r a T ea T 2 a 4 b r a
a T ea T 1 a 3. T u a T r a b a
ar T ea T a r *T wa T a T aff e
*T T a a ar a a aru arra , b
a aff e *T a a r *T i e T a ,
T a b abT a ra a *T .

Tu-a-n-T RT-rb T-a-h-ur T
a-ardu-a-ff-re-rT-ra Ta-a-n-
u-du-Su T-ff-e-or-a-a RT-or-a (..
JT-a. 1994; Val-a. 2005; Wan-a.
Wan-dar 2005). Acc-Tr-a T-Zua-a KT-b-e
(1997), u-cr-a-a Tr-cr-a-a Su-T-ff-e-e-
T-a-b-h-ff-re-a-ar-a-e Tr-h-
-part RT-rb T-Wu-h-ar-a-e Tr RT
T-h-Tu-r-e-a-e Tr-r-e-e T-h-ar-a-e
-a-fia\ ff-re, u-Su-T-ff-e T-a-T-dia
h RT-or-a . h-ae, h RT-a-h-ir-a
-ardu-a-a T-Tu-a : T-a-ardu
-u-b Tr-h-ar-a-e, a-h-Tu-r-
r-a-T-a-r-h-ar-a-e, h-h-ff-
-e-ardu-a, h-ardu-a T-rra-ha
-var-rar-a-e var-a-T-a-e, a-h-ar-a-e T
r-a-T-a-e T-h-ar-a-e T-h-bar-e-a T
r-a-T-a-e Tu-a-ba-rat-ab-a-a T
Tr-h RT-rb T-a-ardu-r-a HT-r,
ffiel T-a-a-h-h RT-rb T-r-pa-
-ar-a-i-a-r-a-e Tr-ab-a-e T-a-h-dia T
-r-T-a-a-e I-a-T-h-h-a-h-a-m-r-fl-
-e-h-a-a T-T-a-rra-a-a-ardu
T-a-a-h-a-r-r-h-a Tra T-a.

A e a h r T e T , b r a T .
A n a T T b r a r a T S e T f f e , b a l , b
b i l r r a c e T a a u T a . G e b r i a T -
b b a r d u f f i t a b r a r a T
S e T f f e , b a e T T a a u T a b a
Tr r a b Tr ar a a a T Tr b r a r a
f f e b a l r r a c e T a a u T a . O
b b a T b r i a T b b a r d u f f i e e
a b a r a f f e , a a l r e b a b
a b a r a f f e b T b r i a b T b r a a
T T a r d u a c a r r T a r i e 2.

$$E_{\pi} = \sqrt{1 + 2}$$

I ' u abT ar ~~u~~ ~~u~~ T ~~u~~ n e ' u Tr ~~u~~ T ~~u~~ a ra-
T ' u S ~~u~~ T ff ~~u~~ ~~u~~ a ardu ~~u~~ a
~~u~~, ~~u~~ a ~~u~~ n a ' T ~~u~~ b r ~~u~~ T , Tr '

act. T a a wa ab ac T S. T ff e a
ar r T a . a T T a ra a T a a T
a T r off r a r e T , b T ' a a ffi-
e a T ' fi a T a ar r e ra a ' a r
ar a l a a ' r a a a ar a arra . CT -
' ar a a ' a a ' a a ' a r ar T a fi a T

ar VTea_T : 3.3% a VTea_T 1, 2.1% a VTea_T 2, 2.8% a VTea_T 3 a 3.0% a VTea_T 4. MTr \leftrightarrow Tr-
an, VTr ff T_T r a a ficea,
 $F(1, 15) = 4.72, P < 0.05$, VTr rrTr a VTr -
r a T_T (3.3%) VTr a T_T -
 T_T (2.3%). B VTr rac T_T b a T_T r a
a VTea_T a VTea_T a ficea, $F(3, 45) = 2.16,$
 $P > 0.1$, a ea a VTr r a ff a VTr
ar acT ar VTea_T .

Tur a Ta ra. Tu Sa ff a
T-T ar, a ha urT a T
fi a T u ar a T u ra T b
u ab a T u Sa ff a urT a
1. A a T a ca r r e b
a i T ar a u a T a ca a T u rT
fi a T T u ar urT a a a a T Tr u
ar, u r r u ar a ar. Tu r a T
a T a Ta b a ra T r a T a
a u a Ta ra a Ta a T a u T r r a .

G. - a

FrT *wa wa b* abT ,
wa T T *Sa* ff e a ' a ardu a ,
b a T *la* ra T *w* ff e ' r ' e T
Tea T ar a ' ardu arra r T a ' .
L a ff e Tr r a ardu , ' S a T ff e
a ' ar T *w* a ' ar a ' T r T -
a ' ar r T fi a T , T *w* a ' ar a ' a ' a -
a r T a ' ar fi a T . T *w* fi a a , a ' a -
ra, aff e a ' ur b ' ardu , a Tr b
r ' T . L T r a , ' la ra ff e a

fl a b ar ffie . On T rwa ,
ar a 'r a T a T ra-
Tr , Tr ar ffie a Tr - aral ,
a S ffie r Tb r a ffie T ea T
T a T a ra .

Orfú a s'r a affr a s'r rT b
a b u a T T b a h a a T T b ar
s'r a T T b ria T a a r rae
rau , b d a al b e a r a fia T . HT r
a b , , , , , , , , , , , , , , , , , , ,
affiel Tr b u a b r r
a e r a T a a T a , b d a T b a b a ,
b a ar ar T a a a r T a , b r T r
T a a a b r a a r a T r r a a b
ca a r a T T b S T b ff e B b ab a
T b a r a ff e a b s' T T ardu a
b a b r b T r T a a r b
a T T r r a r a T a a T b b r
b r e a a T T r T . W a b a a b
T r T a a r a T a a , b a T T r a
a r r a r a r a . Ba T b f a a , b i
b a b a a T b a u T b T f r a a s r a
a a T b T r a r a T b S T b ff e b a b
a b r r a e a T a .

Tu , u la ra. Tu Se Tu ff er fl e ,
Tu a a a a a T a Tr ar a a ff r a Tea-
Tu a a ard arra . Tu T a T a r T b
a a T a T a T r a a a a I , u T r ,
u r a T a Tra a T T b a ,
du a u a ar a r a a T , Tr u a T

T a c a r a a T a r e l , u a r a T
Se T ff e w T i a T e r . L Tb r
a Se T ff e a ff r e w T e a T e Tr u ar
a T o b . T e E * r u a 1 a Tr u * F T
ard e r u 2.

Orr I a ar a ar Tr a a a T Tr
Tr a a r T a a T Tr a a S Tr ff
Tr a Ta ar r a (L a PrTe-
Tr 1995 Tr a r), b a T a a r e a
Tr a T a a a ar a a (War a. 2005)
a u T u r T Ta a T a a r a a
r a a - r r a a a a a T . In War a.
, u ar a arra T T T T a , T
T u l a T T u r u T fi a T a
a a b r T a a a a T a . Par a a
r a T a a T Tr h a r T
u T Tr T a ar v o wa a ar a T a
a a b r T r a c T r Q . In war a. 1, u
T ar T a a a a r a r T u a T ar
u T b a a a f i c i ar a a u a ar
ab a b r T r a c T r . A u T u r a T
a r a a a a T T u a b r T r a c T r , u
S Tr ff e r a a a T r b T u a a a a a
, a a u r a . T u , r a r T T T
T a a r a a T u or a , u r a a T a r -
T T a T a ar r a T b Tr u ar
a T a a u S a r T T a T a ar a a
a r a T a a a T T T b a T , b T
u T ar u T . In War a. 2, u
2, u T Tr T a T a T a T a r a T
T a a r a a r a a r a b a ; u T a r , a r a
a T a u u u u ar T b a ba T
T a . I a T a u a u a T a a T u , ar
u T a T T T T u r b Tr a r a T b a
a u S Tr ff e a r a a u a b
ar u T a a u a a a b T r a r a T
a T a T a r a S a r T T r a a a
a r a T a a a T b a T a r u ar
a a .

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