

Flowering Intelligence Challenge Handbook for Jan-Dec 2009

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Sigma-Pi Designs

Sigma-Pi Designs are part of the Senior Level curriculum. If A represents an active pattern that starts and ends with a syllable, and B represents a gap (all silent except for the first syllable), then

- Sigma (A.B) = [A] [B] [A] [B] [A] [B] Total #units = 3A + 3B
- Pi (A.B) = [A] [B] [A] [B] [A] Total #units = 3A + 2B

1 January

1.1 Vocal Percussion

Formula: AAAX + AAAX + AX + AX + AYAYA + YZZZ
BBBX + BBBX + BX + BX + BYBYB + YZZZ
CCCX + CCCX + CX + CX + CYCYC + Y

A: [ta - tta - ki Ta ta ka]

B: [tak - ki Ta ki Ta ta ka]

C: [ki Ta ki Ta ki Ta ta ka]

X: [[ki Ta tOm - - - ki Ta tOm - - - ta ri ki Ta]]

Y: [ta - - m] Z: [- - - -]

1.2 Patterns in *gambhira-nATa* (S G2 M1 P N2 S')

P1: 1212 1234 1122 1234 1221 1234 1232 1234

P2: 1 - 2 - 1234 1 - 2 - 1213 1 - 2 - 1221 1 - 3 - 2323

1.3 Sigma-Pi Designs in *gambhira-nATa* (S G2 M1 P N2 S')

Refrain: [S - P - - - PMNP M - - GS -] [ma - hA - - - pan - - - chA - - ksha ri -]

SP1: Sigma (5.3) + Pi (6.3) (48 units - 1.5 cycles of *Adi tALa*)

[ta dhi gi Na tom] [ta - -]; [ta dhin - gi Na tom] [ta - -]

[G' S' N P N] [S' - -] [S' N P M P] [N - -] [N P M G M] [P - -]

[G' S' - N P N] [S' - -] [S' N - P M P] [N - -] [N P - M G M]

[S G M P M] [G - -] [G M P N P] [M - -] [M P N S' N] [P - -]

[S G - M P M] [G - -] [G M - P N P] [M - -] [M P - N S' N]

[G' S' N P N] [S' - -] [S' N P M P] [N - -] [N P M G M] [P - -]

[G' S' - N P N] [S' - -] [S' N - P M P] [N - -] [N P - M G M]

SP2: Sigma (6.2) + Pi (8.0) (48 units - 1.5 cycles of *Adi tALa*)

[ta dhin - gi Na tom] [ta - -]; [ta dhin - gi - Na - tom]

[G' S' - N P N] [S' - -] [S' N - P M P] [N - -] [N P - M G M] [P - -]

[G' S' - N - P - N] [S' N - P - M - P] [N P - M - G - M]

[S G - M P M] [G - -] [G M - P N P] [M - -] [M P - N S' N] [P - -]

[S G - M - P - M] [G M - P - N - P] [M P - N - S' - N]

[G' S' - N P N] [S' - -] [S' N - P M P] [N - -] [N P - M G M] [P - -]

[G' S' - N - P - N] [S' N - P - M - P] [N P - M - G - M]

2 February

2.1 Vocal Percussion

Formula: AAAX + AAAX + AX + AX + AYAYA + YZZZ
BBBX + BBBX + BX + BX + BYBYB + YZZZ
CCCX + CCCX + CX + CX + CYCYC + Y

A: [ta la - ng ta ka dhi mi]

B: [ta la - ng tat - ta ri ki Ta]

C: [ta la - ng ta ri ki Ta ta ri ki Ta]

X: [dhi ra ki Ta dhOm - - - dhi ra ki Ta dhOm - - -]

Y: [dhOm - - -] Z: [- - - -]

2.2 Patterns in *hamsadhvani* (S R2 G2 P N2 S')

P3: 1 - 23 1234 1 - 23 1223 1 - 23 2323 1 - 23 1232

P4: 123 - 1234 123 - 1223 123 - 2323 123 - 1232

2.3 Sigma-Pi Designs in *hamsadhvani* (S R2 G2 P N2 S')

Refrain: [GG - RS S - S P,- N,- S - S -] [ka rAm - bu ja pA - Sa bl - jA - pU - ram -]

SP3: Sigma (5.2) + Pi (7.3) (48 units - 1.5 cycles of *Adi tALa*)

[ta dhi gi Na tom] [ta - -]; [ta - dhin - gi Na tom] [ta - -]

[G' R' S' N P] [N -] [R' S' N P G] [P -] [S' N P G R] [G -]

[G' - R' - S' N P] [N - -] [R' - S' - N P G] [P - -] [S' - N - P G R]

[S R G P N] [P -] [R G P N S'] [N -] [G P N S' R'] [S' -]

[S - R - G P N] [P - -] [R - G - P N S'] [N - -] [G - P - N S' R']

[G' R' S' N P] [N -] [R' S' N P G] [P -] [S' N P G R] [G -]

[G' - R' - S' N P] [N - -] [R' - S' - N P G] [P - -] [S' - N - P G R]

SP4: Sigma (4.3) + Pi (9.0) (48 units - 1.5 cycles of *Adi tALa*)

[ta ri ki Ta] [ta - -]; [ta - dhi - ta dhi gi Na tom]

[G' R' S' N] [S' - -] [R' S' N P] [N - -] [S' N P G] [P - -]

[G' - R' - G' R' S' N P] [R' - S' - R' S' N P G] [S' - N - S' N P G R]

[S R G P] [G - -] [R G P N] [P - -] [G P N S'] [N - -]

[S - R - S R G P N] [R - G - R G P N S'] [G - P - G P N S' R']

[G' R' S' N] [S' - -] [R' S' N P] [N - -] [S' N P G] [P - -]

[G' - R' - G' R' S' N P] [R' - S' - R' S' N P G] [S' - N - S' N P G R]

3 March

3.1 Vocal Percussion

Formula: AAAX + AAAX + AX + AX + AYAYA + YZZZ
BBBX + BBBX + BX + BX + BYBYB + YZZZ
CCCX + CCCX + CX + CX + CYCYC + Y

A: [nam - nam - ta ka dhi mi]

B: [nam - ta ri ki Ta ta ka] ta ka dhi mi

C: [nam - ta ri ki Ta ta ka] ta ka dhi mi

X: [dhOng ka dhing ka dhi ra ki Ta dhOm - - -]

Y: [dhOm - - -] Z: [- - - -]

3.2 Patterns in *mOhana* (S R2 G2 P D2 S')

P5: 12 - 3 1234 12 - 3 1223 12 - 3 2323 12 - 3 1232

P6: 1 - - 2 1234 1 - - 2 1223 1 - - 2 2323 1 - - 2 1232

3.3 Sigma-Pi Designs in *mOhana* (S R2 G2 P D2 S')

Refrain #1: [G - G - GPGR RGPG P - - -] [san - nu - tA - - - nga - - - a - - -]

Refrain #2: [S - - D, - S - - GRG -] [svA - - ga - tam - - kri - shNA - -] (*tiSra naDa* - 6 units per beat)

SP5: Sigma (3.3) + Pi (6.6) (48 units - 1.5/1.0 cycles of *Adi tALa* 4/6 units per beat)

[ta ki Ta] [ta - -]; [ta dhin - gi Na tom] [ta - - - -]

[G' R' S'] [R' - -] [R' S' D] [S' - -] [S' D P] [D - -]

[G' R' - S' D P] [D - - - -] [R' S' - D P G] [P - - - -] [S' D - P G R]

[S R G] [R - -] [R G P] [G - -] [G P D] [P - -]

[S R - G P D] [P - - - -] [R G - P D S'] [D - - - -] [G P - D S' R']

[G' R' S'] [R' - -] [R' S' D] [S' - -] [S' D P] [D - -]

[G' R' - S' D P] [D - - - -] [R' S' - D P G] [P - - - -] [S' D - P G R]

SP6: Sigma (6.3) + Pi (7.0) (48 units - 1.5/1.0 cycles of *Adi tALa* 4/6 units per beat)

[ta dhin - gi Na tom] [ta - -]; [ta - dhin - gi Na tom]

[G' R' - S D P] [D - -] [R' S' - D P G] [P - -] [S' D - P G R] [G - -]

[G' - R' - S D P] [R' - S' - D P G] [S' - D - P G R]

[S R - G P D] [P - -] [R G - P D S'] [D - -] [G P - D S' R'] [S' - -]

[S - R - G P D] [R - G - P D S'] [G - P - D S' R']

[G' R' - S D P] [D - -] [R' S' - D P G] [P - -] [S' D - P G R] [G - -]

[G' - R' - S D P] [R' - S' - D P G] [S' - D - P G R]

4 May

4.1 Vocal Percussion

Formula: AAAX + AAAX + AX + AX + AYAYA + YZZZ
BBBX + BBBX + BX + BX + BYBYB + YZZZ
CCCX + CCCX + CX + CX + CYCYC + Y

A: [dhOng ka dhing ka dhing ka dhing ka]

B: [dhOng ka dhOng ka dhing ka dhing ka]

C: [dhOng ka dhOng ka dhOng ka dhing ka]

X: [dhi ra ki Ta dhOng - ka - dhi ra ki Ta dhOm - - -]

Y: [ta - - m] Z: [- - - -]

4.2 Patterns in *Suddha-sAvEri* (S R2 M1 P D2 S')

P7: 1 - - - 1234 1 - - - 1213 1 - - - 1221 1 - - - 2323

P8: 1 - 2- 12 - 3 1 - 2 - 12 - 1 1 - 3 - 22 - 3 2 - 1- 21 - 2

4.3 Sigma-Pi Designs in *Suddha-sAvEri* (S R2 M1 P D2 S')

Refrain: [S' - - - D- P- M- D- P- - - M- R- - - - -] [SrI - - - gu-ru- gu-ha- tA- - - ra- yA- - - - -]

SP7: Sigma (7.4) + Pi (5.0) (48 units - 3 cycles of *rUpaka tALa*)

[ta - dhin - gi Na tom] [ta - - -]; [ta dhi gi Na tom]

[M' - R' - S' D P] [D - - -] [R' - S' - D P M] [P - - -] [S' - D - P M R] [M - - -]

[M' R' S' D P] [R' S' D P M] [S' D P M R]

[S - R - M P D] [P - - -] [R - M - P D S'] [D - - -] [M - P - D S' R'] [S' - - -]

[S R M P D] [R M P D S'] [M P D S' R']

[M' - R' - S' D P] [D - - -] [R' - S' - D P M] [P - - -] [S' - D - P M R] [M - - -]

[M' R' S' D P] [R' S' D P M] [S R M P D]

SP8: Sigma (8.3) + Pi (5.0) (48 units - 3 cycles of *rUpaka tALa*)

[ta dhi - ta dhi gi Na tom] [ta - -]; [ta dhi gi Na tom]

[M'R' - M' R' S' D P][D - -] [R'S' - R' S' D P M][P - -] [S'D - S' D P M R][M - -]

[M' R' S' D P] [R' S' D P M] [S' D P M R]

[S R - S R M P D][P - -] [R M - R M P D S'] [D - -] [M P - M P D S' R'] [S' - -]

[S R M P D] [R M P D S'] [M P D S' R']

[M'R' - M' R' S' D P][D - -] [R'S' - R' S' D P M][P - -] [S'D - S' D P M R][M - -]

[M' R' S' D P] [R' S' D P M] [S R M P D]

5 June

5.1 Vocal Percussion

Formula: AAAX + AAAX + AX + AX + AYAYA + YZZZ
BBBX + BBBX + BX + BX + BYBYB + YZZZ
CCCX + CCCX + CX + CX + CYCYC + Y

A: [dhing ka dhing ka dhi ra ki Ta dhing ka]

B: [dhi ra ki Ta dhing ka dhi ra ki Ta dhing ka]

C: [dhi ra ki Ta ta ka dhi ra ki Ta ta ka dhing ka]

X: [dhi ra ki Ta dhOng - ka - dhi ra ki Ta dhOm - - -]

Y: [ta - - m] Z: [- - - -]

5.2 Patterns in *Suddha-dhanyAsi* (S G1 M1 P N1 S')

P9: 112 - 12 - 3 122 - 12 - 3 121 - 12 - 1 121 - 21 - 2

P10: 1 - - 2 12 - 3 1 - - 2 1 - 22 1 - - 2 1 - 21 1 - - 3 2 - 33

5.3 Sigma-Pi Designs in *Suddha-dhanyAsi* (S G1 M1 P N1 S')

Refrain:[S'G'S'N PNS'N PNPM GSGM P-NP-NN-S'-][hi-ma- gi-ri- ta-na- yE--- hE----mala- tE-]

SP9: Sigma (7.4) + Pi (5.8) (64 units - 2 cycles of *Adi tALa*)

[ta - dhin - gi Na tom] [ta - - -]; [ta dhi gi Na tom] [ta - - - dhi - - -]

[G'- S'- N P M] [P - - -] [S'- N - P M G] [M - - -] [N - P - M G S] [G - - -]

[G' S' N P M] [P--- N---] [S' N P M G] [M--- P---] [N P M G S]

[S - G - M P N] [P - - -] [G - M - P N S'] [N - - -] [M - P - N S' G'] [S' - - -]

[S G M P N] [P--- M---] [G M P N S'] [N--- P---] [M P N S' G']

[G'- S'- N P M] [P - - -] [S'- N - P M G] [M - - -] [N - P - M G S] [G - - -]

[G' S' N P M] [P--- N---] [S' N P M G] [M--- P---] [N P M P N]

SP10: Sigma (7.4) + Pi (9.2) (64 units - 2 cycles of *Adi tALa*)

[ta - dhin - gi Na tom] [ta - - -]; [ta - dhi - ta dhi gi Na tom] [ta -]

[G'- S'- N P M] [P - - -] [S'- N - P M G] [M - - -] [N - P - M G S] [G - - -]

[G'- S'- G' S' N P M] [P -] [S'- N - S' N P M G] [M -] [N - P - N P M G S]

[S - G - M P N] [P - - -] [G - M - P N S'] [N - - -] [M - P - N S' G'] [S' - - -]

[S - G - S G M P N] [P -] [G - M - G M P N S'] [N -] [M - P - M P N S' G']

[G'- S'- N P M] [P - - -] [S'- N - P M G] [M - - -] [N - P - M G S] [G - - -]

[G'- S'- G' S' N P M] [P -] [S'- N - S' N P M G] [M -] [N - P - N P M P N]

6 September

6.1 Vocal Percussion

Formula: AAAX + AAAX + AX + AX + AYAYA + YZZZ
BBBX + BBBX + BX + BX + BYBYB + YZZZ
CCCX + CCCX + CX + CX + CYCYC + Y

A: [dhi nna - dhi nna - ta ri ki Ta]
B: [dhi nna dhi nna din nna ta ri ki Ta]
C: [dhi nna dhi nna ta ri ki Ta ta ri ki Ta]
X: [dhi - tta ri ki Ta ta ka ta - - m]
Y: [ta - - m] Z: [- - - -]

6.2 Patterns in *SankarAbharaNam* (S R2 G2 M1 P D2 N2 S')

P11: 1212 12 - 3 1212 12 - 1 1232 12 - 3 1122 12 - 1
P12: 1111 3333 1112 1212 1221 1212 1221 1221

6.3 Sigma-Pi Designs in *SankarAbharaNam* (S R2 G2 M1 P D2 N2 S')

Refrain: [S'--N D-PM G--R S-] [gan--ga yE-digi jA--re nE-]

SP11: Sigma (8.3) + Pi (5.8) (64 units - 2 cycles of *Adi tALa*)

[ta dhi - ta dhi gi Na tom] [ta - -]; [ta dhi gi Na tom] [ta - - - dhi - - -]
[G' R'- G' R' S' N D][N - -] [R' S'- R' S' N D P][D - -] [S' N - S' N D P M][P - -]
[G' R' S' N D] [N--- S'---] [R' S' N D P] [D--- N---] [S' N D P M]
[G M - G M P D N][D - -] [M P - M P D N S'][N - -] [P D - P D N S' R'][S' - -]
[G M P D N] [D--- P---] [M P D N S'] [N--- D---] [P D N S' R']
[G' R'- G' R' S' N D][N - -] [R' S'- R' S' N D P][D - -] [S' N - S' N D P M][P - -]
[G' R' S' N D] [N--- S'---] [R' S' N D P] [D--- N---] [S' N P D N]

SP12: Sigma (8.3) + Pi (9.2) (64 units - 2 cycles of *Adi tALa*)

[ta dhi - ta dhi gi Na tom] [ta - -]; [ta - dhi - ta dhi gi Na tom] [ta -]
[G' R'- G' R' S' N D][N - -] [R' S'- R' S' N D P][D - -] [S' N - S' N D P M][P - -]
[G'- R'- G' R' S' N D][N -] [R'- S'- R' S' N D P][D -] [S'- N - S' N D P M]
[G M - G M P D N][D - -] [M P - M P D N S'][N - -] [P D - P D N S' R'][S' - -]
[G- M- G M P D N][D -] [M- P- M P D N S'][N -] [P - D- P D N S' R']
[G' R'- G' R' S' N D][N - -] [R' S'- R' S' N D P][D - -] [S' N - S' N D P M][P - -]
[G'- R'- G' R' S' N D][N -] [R'- S'- R' S' N D P][D -] [S'- N - S' N P D N]

7 October

7.1 Vocal Percussion

Formula: AAAX + AAAX + AX + AX + AYAYA + YZZZ
BBBX + BBBX + BX + BX + BYBYB + YZZZ
CCCX + CCCX + CX + CX + CYCYC + Y

A: [dhi nna dhi nna ta ri ki Ta ta ka dhi mi]

B: [dhi nna ta ri ki Ta ta ka ta ri ki Ta ta ka]

C: [dhi ra ki Ta ta ri ki Ta ta ka ta ri ki Ta ta ka]

X: [dhi - tta ri ki Ta ta ka] ta - - m]

Y: [ta - - m] Z: [- - - -]

7.2 Patterns in *madhyamAvati* (S R2 M1 P N1 S')

P13: 1 - 2 - 1234 1 - 2 - 1213 1 - 2 - 1221 1 - 3 - 2323

P14: 1 - 23 1234 1 - 23 1223 1 - 23 2323 1 - 23 1232

7.3 Sigma-Pi Designs in *madhyamAvati* (S R2 M1 P N1 S')

Refrain: [RR R--- R- RMPM RMRS] [nagu mO--- mu galavA- --ni-]

SP13: Sigma (9.2) + Pi (5.8) (64 units - 2 cycles of *Adi tALa*)

[ta - dhi - ta dhi gi Na tom] [ta -]; [ta dhi gi Na tom] [ta - - - dhi - - -]
[M' - R' - M' R' S' N P] [N -] [R' - S' - R' S' N P M] [P -] [S' - N - S' N P M R] [M -]
[M' R' S' N P] [N --- S' ---] [R' S' N P M] [P --- N ---] [S' N P M R]
[S - R - S R M P N] [P -] [R - M - R M P N S'] [N -] [M - P - M P N S' R'] [S' -]
[S R M P N] [P --- M ---] [R M P N S'] [N --- P ---] [M P N S' R']
[M' - R' - M' R' S' N P] [N -] [R' - S' - R' S' N P M] [P -] [S' - N - S' N P M R] [M -]
[M' R' S' N P] [N --- S' ---] [R' S' N P M] [P --- N ---] [S' N P M R]

SP14: Sigma (5.6) + Pi (9.2) (64 units - 2 cycles of *Adi tALa*)

[ta dhi gi Na tom] [ta - - dhi - -]; [ta - dhi - ta dhi gi Na tom] [ta -]
[M' R' S' N P] [N -- S' --] [R' S' N P M] [P -- N --] [S' N P M R] [M -- P --]
[M' - R' - M' R' S' N P] [N -] [R' - S' - R' S' N P M] [P -] [S' - N - S' N P M R]
[S R M P N] [P -- M --] [R M P N S'] [N -- P --] [M P N S' R'] [S' -- N --]
[S - R - S R M P N] [P -] [R - M - R M P N S'] [N -] [M - P - M P N S' R']
[M' R' S' N P] [N -- S' --] [R' S' N P M] [P -- N --] [S' N P M R] [M -- P --]
[M' - R' - M' R' S' N P] [N -] [R' - S' - R' S' N P M] [P -] [S' - N - S' N P M R]