

# ***PUZZLE »***

for (SABRe) bassclarinet and  
computer (Ambisonics)

by Martin Schlumpf ----- **2011**



## Puzzle

----- for (SABRe) bassclarinet and computer (Ambisonics), composed for Matthias Müller between October and December 2011 on a commission from the ICST (Institute for Computer Music and Sound Technology Zurich).

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Total duration ----- ca. 9:30 Min. ----- © by Martin Schlumpf  
[www.martinschlumpf.ch](http://www.martinschlumpf.ch)

# PUZZLE »

for (SABRe) bassclarinet and  
computer (Ambisonics)

----- 2011

----- Dedicated to Matthias Müller

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## Puzzle

### Remarks

- *This composition can be played with either a normal or the Sensor Augmented (SABRe) bass-clarinet, as it was developed in a research project at the Institute for Computer Music and Sound Technology (ICST) at Zurich University of the Arts in 2010 - 2012.*
- *The bassclarinet player needs a click track to be connected with the computer.*
- *The whole computer music part was created in the composers home studio with means of MOTU Digital performer, Ethno Instrument, BPM, Symphonic Instrument and Spectrasonics Omnisphere and Trilian.*
- *All electronics have been designed by the composer for surround sound using the Ambisonics procedure developed at the ICST as well. For such an Ambisonics performance at least four loudspeakers are required.  
Nevertheless the piece may also be played in a stereo performance with two loudspeakers.*
- *The computer music material as well as the score and the bassclarinet part can be obtained by tgmusic or the composer.*
- *The whole score is written as it sounds. All accidentals apply for the entire bar, but only in the octave indicated.*
- *A square notehead in the bassclarinet part means «singing into the instrument».  
A little circle over the note stem stands for slapping.*
- *The final screaming in the bassclarinet (m. 196) has to be performed with a long reverb.*



## Martin Schlumpf

1947 Born in Aarau (Switzerland), on December 3.

1968-73 Studies music in Zurich: clarinet (Hansjürg Leuthold), piano (Warren Thew und Evelyne Dubourg), conducting (Ferdinand Leitner), theory and composition (Rudolf Kelterborn).

1974 Further composition studies with Boris Blacher in Berlin.

1977- Professor of music theory at Zurich University of the Arts.

1991- Teaches group improvisation at Zurich University of the Arts..



Until 1980 Mainly active as a composer of contemporary art music, winning many awards, incl. first prizes at Zurich Competition (1972, 1979) and Tonhalle Competition (1975).

1980- Returns to improvised music, first as a bass player in «Trio 80» (with Urs Blöchliger) and from 1982 as saxophonist and bass clarinetist in own groups (especially «BERMUDA VIERECK») and many other projects.

1987- Member of Aargau Saxophone Quartet as soprano saxophonist.

1990s- Widely active in borderlands between improvisation and composition, with increasing emphasis on composing in a new «postmodern» style and a strong interest in complex polymetrical structures (research project on Conlon Nancarrow's studies) combined with increased compositional use of the computer.

### Catalogue of compositions (selection):

«Evocations» for brass, piano and percussion (1972); «5 Stücke for large orchestra» (1973); «Fragment» for chamber orchestra with obligato violin (1974-75); «String Quartet 1975»; «Todesfuge» for speaking chorus (1976); «Tenebrae» for solo voices, mixed chorus, brass, harpsichord and string quintet (1976-77); «Stratifications» for solo trumpet, obligato piano and orchestra (1977/78); «Jeux» for 3 clarinets (1979); «Ostinato I and II» for 3 improvising musicians and orchestra (1980/82); «Onyx» for alto saxophone and cello (1985); «Winterkreis» for saxophone quartet (1991); «Sommerbogen» for guitar quartet (1992); «December Rains» for solo piano (1992-93); «... as time goes by ...» for piano and percussion quartet (1993); «Mouvements» for piano and orchestra (1994); «Spring» for percussion quartet (1995); «...aufplattern mit ...» for 4 women's voices (1995); «Clarinet Trio» (1997); «Rattaplasma 2» for clarinet and computer (2001); «Waves» cello concerto with electronics (2002); «Blue» for saxophone quartet (2003); «The Wounded Bluesplayer» for horn and resonating piano (2004); «Atemspuren» for bass clarinet and accordion (2005); «pulsar\_1» for 4 instruments and computer (2006-07); «Summer Circle» for string quartet (2007); «pulsar\_2» for voice, flute, piano and computer (2009); «Streams» for clarinet, bass trombone and 17 instruments (2010).

### Sound recordings (with own compositions):

- Schweizer Musik des 20. Jahrhunderts (HUG, HC 9111) with «String Quartet 1975»
- Martin Schlumpf: Swiss Fusion 84 - Live (Unit records, utr 4009), 1984
- Noblesse galvanisée (Plainisphere, PL 1267-20/21) with Martin Schlumpf's BERMUDA VIERECK, 1985
- Martin Schlumpf's BERMUDA VIERECK (Unit records, utr 4038), 1990
- Cumuli (Unit records, utr 4049) with Martin Schlumpf's BERMUDA VIERECK, 1992
- Winterkreis (SOT 47-12) with Aargau Saxophone Quartet, 1992
- Swiss Percussion Ensemble + Christoph Baumann (Unit records, utr 4089), 1995, with «...as time goes by...»
- Vier Jahreszeiten (MGB, Musikszene Schweiz, CD 6129), 1996 with «Winterkreis», «Spring», «Sommerbogen» and «... aufplattern mit ...»
- Die Kunst des Tempokanons, C. Nancarrow - M. Schlumpf (artist.cd 8103 2), 2004
- Timegrid\_01 (tgmusic 47.101), 2008 with ZWEIZEIT: A. Frey and M. Schlumpf
- pulsar\_1 (ZHdK Records 15/09), 2009 with «pulsar\_1», «Atemspuren» and «Rattaplasma 2»

MM 30 (Computer - Tempo)

Rumbiangabe in [ ] =>

5:6:8:9

"Tuzzle" for barclanet and Computer (Rumbiswica), 2011

by Martin Schlumpf

1

[1] -> Marker

• "144-Straight-up-1+" // 1/1/000

BPM 1: Big Beat > 150 - Straight

[hinten, 270° -> wandert über rechte Seite bis vorne ~ 190°, m. 17]

+ SHK

+ SD1

MM 44

BPM 1

a 144

Guit 120

g 120

MM 30

Bel

c 90

Recorder

Cor

d 80

Ftellen

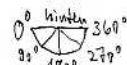
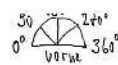
Hit

BPM 1

Guit

Bel

Fretless



cresc. poco a poco, bis m. 17

MSI: Classical Guitar > Guitar 1 > Classical Guitar 1 Fingers

Guit 120 1+ // 1/1/000

"FthBhaden 30 - 1 Rev" // 1/1/000

Thema 1: Groups > India > Percussion > Ghatham: 080 - Ghatham 4/4 (bis m. 11)

4 (klingend)

(Slap)

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• "144-Jumpin-13+" (By Beat) // 13/1/000

24

23

25

Guit  
120  
[EL-BS]

MM 90  
Bcl

Fetless  
MM 80

Bcl

PM 144

MM 120

Fret 80  
MM 80

Handwritten musical score for guitar, bass, and drums. The score is written on multiple staves and includes various musical notations, including notes, rests, and dynamic markings. The tempo is marked as 144 BPM. The key signature is one flat (B-flat). The score is divided into sections by measure numbers (e.g., 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375, 377, 379, 381, 383, 385, 387, 389, 391, 393, 395, 397, 399, 401, 403, 405, 407, 409, 411, 413, 415, 417, 419, 421, 423, 425, 427, 429, 431, 433, 435, 437, 439, 441, 443, 445, 447, 449, 451, 453, 455, 457, 459, 461, 463, 465, 467, 469, 471, 473, 475, 477, 479, 481, 483, 485, 487, 489, 491, 493, 495, 497, 499, 501, 503, 505, 507, 509, 511, 513, 515, 517, 519, 521, 523, 525, 527, 529, 531, 533, 535, 537, 539, 541, 543, 545, 547, 549, 551, 553, 555, 557, 559, 561, 563, 565, 567, 569, 571, 573, 575, 577, 579, 581, 583, 585, 587, 589, 591, 593, 595, 597, 599, 601, 603, 605, 607, 609, 611, 613, 615, 617, 619, 621, 623, 625, 627, 629, 631, 633, 635, 637, 639, 641, 643, 645, 647, 649, 651, 653, 655, 657, 659, 661, 663, 665, 667, 669, 671, 673, 675, 677, 679, 681, 683, 685, 687, 689, 691, 693, 695, 697, 699, 701, 703, 705, 707, 709, 711, 713, 715, 717, 719, 721, 723, 725, 727, 729, 731, 733, 735, 737, 739, 741, 743, 745, 747, 749, 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779, 781, 783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809, 811, 813, 815, 817, 819, 821, 823, 825, 827, 829, 831, 833, 835, 837, 839, 841, 843, 845, 847, 849, 851, 853, 855, 857, 859, 861, 863, 865, 867, 869, 871, 873, 875, 877, 879, 881, 883, 885, 887, 889, 891, 893, 895, 897, 899, 901, 903, 905, 907, 909, 911, 913, 915, 917, 919, 921, 923, 925, 927, 929, 931, 933, 935, 937, 939, 941, 943, 945, 947, 949, 951, 953, 955, 957, 959, 961, 963, 965, 967, 969, 971, 973, 975, 977, 979, 981, 983, 985, 987, 989, 991, 993, 995, 997, 999, 1001, 1003, 1005, 1007, 1009, 1011, 1013, 1015, 1017, 1019, 1021, 1023, 1025, 1027, 1029, 1031, 1033, 1035, 1037, 1039, 1041, 1043, 1045, 1047, 1049, 1051, 1053, 1055, 1057, 1059, 1061, 1063, 1065, 1067, 1069, 1071, 1073, 1075, 1077, 1079, 1081, 1083, 1085, 1087, 1089, 1091, 1093, 1095, 1097, 1099, 1101, 1103, 1105, 1107, 1109, 1111, 1113, 1115, 1117, 1119, 1121, 1123, 1125, 1127, 1129, 1131, 1133, 1135, 1137, 1139, 1141, 1143, 1145, 1147, 1149, 1151, 1153, 1155, 1157, 1159, 1161, 1163, 1165, 1167, 1169, 1171, 1173, 1175, 1177, 1179, 1181, 1183, 1185, 1187, 1189, 1191, 1193, 1195, 1197, 1199, 1201, 1203, 1205, 1207, 1209, 1211, 1213, 1215, 1217, 1219, 1221, 1223, 1225, 1227, 1229, 1231, 1233, 1235, 1237, 1239, 1241, 1243, 1245, 1247, 1249, 1251, 1253, 1255, 1257, 1259, 1261, 1263, 1265, 1267, 1269, 1271, 1273, 1275, 1277, 1279, 1281, 1283, 1285, 1287, 1289, 1291, 1293, 1295, 1297, 1299, 1301, 1303, 1305, 1307, 1309, 1311, 1313, 1315, 1317, 1319, 1321, 1323, 1325, 1327, 1329, 1331, 1333, 1335, 1337, 1339, 1341, 1343, 1345, 1347, 1349, 1351, 1353, 1355, 1357, 1359, 1361, 1363, 1365, 1367, 1369, 1371, 1373, 1375, 1377, 1379, 1381, 1383, 1385, 1387, 1389, 1391, 1393, 1395, 1397, 1399, 1401, 1403, 1405, 1407, 1409, 1411, 1413, 1415, 1417, 1419, 1421, 1423, 1425, 1427, 1429, 1431, 1433, 1435, 1437, 1439, 1441, 1443, 1445, 1447, 1449, 1451, 1453, 1455, 1457, 1459, 1461, 1463, 1465, 1467, 1469, 1471, 1473, 1475, 1477, 1479, 1481, 1483, 1485, 1487, 1489, 1491, 1493, 1495, 1497, 1499, 1501, 1503, 1505, 1507, 1509, 1511, 1513, 1515, 1517, 1519, 1521, 1523, 1525, 1527, 1529, 1531, 1533, 1535, 1



01:00

5:6:8:9

Puzzle

MM 120

28/1  
5

29/4|240

3/4

32/1

34/2|240

6

MM 144

Guit  
120

Bcl

MM 120

Harm

MM 90

Fret 80  
Subbass

MM 80

"Omni Evo Vow - 28" Evolving Harmony  
1/28/1/000

"Omni Evo Vow - 28" (Bass) // 28/1/000

"80 - Daddy Sm - 28 Rev + " // 28/1/000

BPM: Dirty South &gt; 076 Daddy Smooth

32/1

34/2|240

42/1

MM 90 4/4

7

Bcl

MM 120

Harm

Subbass

Evo Vow BPM: Dub > 058 Dub Indus  
"60 Dub Indus - 43" // 43/1/000

MM 90 Bcl

43 4/4

44

45

④

8

[illegible]



02:00

57/4/96

5:6:8:9

Puzzle

Handwritten musical score for a guitar piece, featuring multiple staves and various annotations.

**Staff 1 (Bcl):** MM 144, 56 4/4, 57, 58, MM 120, 59 5/4, 60, MM 30. Annotations include "poco f", "144 Rfx3-56 Rev" // 56/1/000, "Belltree", "MSI Wind Ch-704" // 61/1/090, and "Belltree".

**Staff 2 (BPM):** MM 120, BPM MM 30. Annotations include "[45-Slow Night]", "(Gibran)", "Fret 60-57+" // 57/4/036, "MSI Bawl-low" // 56/1/000, and "dim. poco a poco!".

**Staff 3 (Fretless):** MM 60, BPM MM 30. Annotations include "MM 80", "MM 60", and "UVI Workstation: X-TremeFX > MScena > Night and Day".

**Staff 4 (Fretless):** MM 60, BPM MM 60. Annotations include "63", "dim", "64", "65", "66", "67", "Fret 60-66+" // 66/3/320, "66/3/320", "mp", and "Bcl".

**Staff 5 (Bcl):** BPM MM 60. Annotations include "62/4/240" and "80-Maracas Mix-62 Rev" // 62/4/240.

02:30'

5:6:8:9

Puzzle

(6)

mt. ————— → MM50 mt. ———

Bcl  
MM 60

68 69 70  $\frac{5}{4}$  71  $\frac{4}{4}$

Freelass

Maracas

Bar transferred side to side

02:51"  
(MM42)  
Senza misura (for Bcl)

Comp:  $\frac{5}{4}$   $\Delta = 60$

5" 5" 5" 5" 5"

Bcl

72

ppp

c "Wheel R-67" // 72111240

X-Treme FX > Atmospheres > Bank A:  
09 Wheel Raining Drc

8b

73 74 75

03:11

13

"Trav-67" // 76/1/000 X-Treme FX &gt; Atmospheres &gt; Bank B: Travelling

\*) "Open Air D2-72" // 76/3/000 X-Treme FX &gt; Scenes &gt; Open Air (D2)

\*) = singing into the instrument

4" enter very softly

4"

5"

(♩ ~ 60)

4"

3"

5"

Bel

Comp  
MM 60

76

77

78

79

80

81

14

5"

5"

4"

4"

86/4/023

MM 126

Countin

4"

Bel

Comp  
MM 60

82

83

84

85

86

"MSI Cymb F4" //

86/2/293

MSI > Percussion > Ganga-Cymb  
Cymbals: F4

