

List of publications

Jan Rak

September 27, 2016

Department of Physics
P.O.Box 35 Jyväskylä
FI-40014 University of Jyväskylä,
Finland

Tel: +358 50 4280812
email: jan.rak@phys.jyu.fi

1 List of 10 most relevant publications to this application

- [1] “High- p_T physics in the Heavy Ion Era” book I wrote with M. J. Tannenbaum.
- [2] CERES paper on the subject I was working on.
- [3] k_T analysis I have developed in PHENIX.
- [4] Related PHENIX paper on the same topic.
- [5] Direct photon analysis - modification of the fragmentation function. Topic of our group.
- [6] Final state QCD radiation study using the dijet net transverse momentum.
- [7] Low energy RHIC scan result. Our group main involvement in PHENIX.
- [8] Modification of the jet yield with ALICE data - topic where our group is actively involved.
- [9] One of the first p-Pb ALICE data analysis using di-hadron correlations.
- [10] Our involvement in the L0 single photon trigger with ALICE EM calorimeter.

2 List of publications in 2015

- ALICE: [11, 12, 13, 14, 6, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26]
- PHENIX [27, 28, 29, 30, 31, 32, 33]

3 List of publications in 2014

- ALICE: [?, 34, 35, ?, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54]
- PHENIX [55, 56, 57, 58, 59, ?, 60, 61, 62, 63, ?, 64, 65]

4 List of publications in 2013

- ALICE: [66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 9, 89, 90, 91]
- PHENIX: [92, 93, 94, 95, 96, 97, 98, 99, ?, 100]
- WA98: [101]

5 List of publications in 2012

- ALICE: [102, 103, 104, 105, 8, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124]
- PHENIX: [125, 126, 127, 7, 128, 129, 130, 131, 132]
- CERES: [133]
- Other [10]

6 List of publications in 2011

- ALICE: [134, 135, 136, 137, 138, 139, 140, 141, 142]
- PHENIX: [143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156]
- WA98: [157]
- Others: [142]

7 List of publications in 2010

- ALICE: [158, 159, 160, 161, 162, 163, 164, 165, 166]
- PHENIX: [167, 168, 5, 169, 170, 171, 172, 173, 174, 175]
- Other: [165, 176, 177]

8 List of publications in 2009

- PHENIX: [178, 179, 180, 181, 182, 183, 184, 185, 186, 187]
- CERES: [188, 189]
- Other: [187]

9 List of publications in 2008

- PHENIX: [190, 191, 192, 193, 194, 195, 196, 197, 198, 199]
- CERES: [200, 201, 202], WA98 [203]
- Other: [204, 205]

10 List of publications in 2007

- PHENIX: [206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223]
- Other: [224, 225]

11 List of publications before 2007

[226, 227, 228, 3, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326]

References

- [1] J. Rak and M. J. Tannenbaum, "*High- p_T physics in the Heavy Ion Era*" (Cambridge University Press, 2013).
- [2] CERES/NA45, G. Agakichiev *et al.*, Phys. Rev. Lett. **92**, 032301 (2004), nucl-ex/0303014.
- [3] PHENIX, S. S. Adler *et al.*, Phys. Rev. **D74**, 072002 (2006), hep-ex/0605039.
- [4] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C73**, 054903 (2006), nucl-ex/0510021.
- [5] PHENIX, A. Adare *et al.*, Phys. Rev. **D82**, 072001 (2010), 1006.1347.
- [6] ALICE, J. Adam *et al.*, Phys. Lett. **B746**, 385 (2015), 1503.03050.
- [7] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **109**, 152301 (2012), 1204.1526.
- [8] ALICE, K. Aamodt *et al.*, Phys. Rev. Lett. **108**, 092301 (2012), 1110.0121.
- [9] ALICE, B. Abelev *et al.*, Phys. Lett. **B719**, 29 (2013), 1212.2001.
- [10] J. Kral, T. Awes, H. Muller, J. Rak, and J. Schambach, Nucl.Instrum.Meth. **A693**, 261 (2012).
- [11] ALICE, J. Adam *et al.*, Nature Phys. **11**, 811 (2015), 1508.03986.
- [12] ALICE, J. Adam *et al.*, JHEP **07**, 051 (2015), 1504.07151.
- [13] ALICE, J. Adam *et al.*, Eur. Phys. J. **C75**, 226 (2015), 1504.00024.
- [14] ALICE, J. Adam *et al.*, JHEP **06**, 055 (2015), 1503.07179.
- [15] ALICE, J. Adam *et al.*, Phys. Lett. **B749**, 68 (2015), 1503.00681.
- [16] ALICE, J. Adam *et al.*, Phys. Lett. **B746**, 1 (2015), 1502.01689.
- [17] ALICE, J. Adam *et al.*, Phys. Rev. **C91**, 034906 (2015), 1502.00559.
- [18] ALICE, J. Adam *et al.*, JHEP **05**, 097 (2015), 1502.00230.
- [19] ALICE, J. Adam *et al.*, Phys. Rev. **C91**, 064905 (2015), 1412.6828.
- [20] ALICE, B. B. Abelev *et al.*, Eur. Phys. J. **C75**, 146 (2015), 1411.4981.
- [21] ALICE, B. B. Abelev *et al.*, Phys. Rev. **D91**, 112012 (2015), 1411.4969.
- [22] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B740**, 105 (2015), 1410.2234.
- [23] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B741**, 38 (2015), 1406.5463.
- [24] ALICE, B. B. Abelev *et al.*, Eur. Phys. J. **C75**, 1 (2015), 1406.3206.
- [25] ALICE, B. B. Abelev *et al.*, JHEP **06**, 190 (2015), 1405.4632.

- [26] ALICE, B. B. Abelev *et al.*, Phys. Rev. **D91**, 012001 (2015), 1405.4117.
- [27] PHENIX, A. Adare *et al.*, Phys. Rev. **D91**, 032001 (2015), 1409.1907.
- [28] PHENIX, A. Adare *et al.*, Phys. Rev. **C91**, 031901 (2015), 1409.0851.
- [29] PHENIX, A. Adare *et al.*, Phys. Rev. **C91**, 014907 (2015), 1405.4004.
- [30] PHENIX, A. Adare *et al.*, Phys. Rev. **C91**, 064904 (2015), 1405.3940.
- [31] PHENIX, A. Adare *et al.*, Phys. Rev. **C91**, 044907 (2015), 1405.3301.
- [32] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **114**, 192301 (2015), 1404.7461.
- [33] PHENIX, A. Adare *et al.*, Phys. Rev. **C91**, 024913 (2015), 1404.2246.
- [34] ALICE, B. Abelev *et al.*, J. Phys. **G41**, 087002 (2014).
- [35] ALICE, B. Abelev *et al.*, J. Phys. **G41**, 087001 (2014).
- [36] ALICE, B. B. Abelev *et al.*, Phys. Rev. **C90**, 054901 (2014), 1406.2474.
- [37] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B738**, 361 (2014), 1405.4493.
- [38] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B738**, 97 (2014), 1405.4144.
- [39] ALICE, B. B. Abelev *et al.*, JHEP **12**, 073 (2014), 1405.3796.
- [40] ALICE, B. B. Abelev *et al.*, Eur. Phys. J. **C74**, 3108 (2014), 1405.3794.
- [41] ALICE, B. B. Abelev *et al.*, Phys. Rev. Lett. **113**, 232301 (2014), 1405.3452.
- [42] ALICE, B. B. Abelev *et al.*, Eur. Phys. J. **C74**, 3054 (2014), 1405.2737.
- [43] ALICE, B. B. Abelev *et al.*, Phys. Rev. **C90**, 034904 (2014), 1405.2001.
- [44] ALICE, B. B. Abelev *et al.*, JINST **9**, P11003 (2014), 1405.1849.
- [45] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B739**, 139 (2014), 1404.1194.
- [46] ALICE, B. B. Abelev *et al.*, Eur. Phys. J. **C74**, 2974 (2014), 1403.3648.
- [47] ALICE, B. B. Abelev *et al.*, Int. J. Mod. Phys. **A29**, 1430044 (2014), 1402.4476.
- [48] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B736**, 196 (2014), 1401.1250.
- [49] ALICE, B. Abelev *et al.*, JHEP **03**, 013 (2014), 1311.0633.
- [50] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B734**, 314 (2014), 1311.0214.
- [51] ALICE, B. B. Abelev *et al.*, Phys. Rev. **C89**, 024911 (2014), 1310.7808.
- [52] ALICE, B. B. Abelev *et al.*, JHEP **02**, 073 (2014), 1308.6726.
- [53] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B728**, 25 (2014), 1307.6796.

- [54] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B728**, 216 (2014), 1307.5543, [Erratum: Phys. Lett.B734,409(2014)].
- [55] PHENIX, A. Adare *et al.*, Phys. Rev. **D90**, 072008 (2014), 1406.3541.
- [56] PHENIX, A. Adare *et al.*, Phys. Rev. **D90**, 052002 (2014), 1405.4260.
- [57] PHENIX, A. Adare *et al.*, Phys. Rev. **C90**, 054905 (2014), 1405.3628.
- [58] PHENIX, N. N. Ajitanand *et al.*, Nucl. Phys. **A931**, 1082 (2014), 1404.5291.
- [59] PHENIX, C. Aidala *et al.*, Phys. Rev. **C90**, 064908 (2014), 1404.1873.
- [60] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **112**, 222301 (2014), 1401.7680.
- [61] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C89**, 044905 (2014), 1312.6676.
- [62] PHENIX, A. Adare *et al.*, Phys. Rev. **D90**, 012006 (2014), 1312.1995.
- [63] PHENIX, A. Adare *et al.*, Phys. Rev. **C89**, 034915 (2014), 1311.1427.
- [64] PHENIX, A. Adare *et al.*, Phys. Rev. **C90**, 034902 (2014), 1310.4793.
- [65] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **112**, 252301 (2014), 1310.1005.
- [66] ALICE, B. Abelev *et al.*, Phys. Rev. **D87**, 052016 (2013), 1212.5958.
- [67] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **110**, 032301 (2013), 1210.3615.
- [68] ALICE, B. Abelev *et al.*, Eur. Phys. J. **C73**, 2456 (2013), 1208.4968.
- [69] ALICE, B. Abelev *et al.*, Phys. Lett. **B721**, 13 (2013), 1208.1902.
- [70] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **110**, 152301 (2013), 1207.6068.
- [71] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **110**, 012301 (2013), 1207.0900.
- [72] ALICE, B. Abelev *et al.*, Phys. Lett. **B719**, 18 (2013), 1205.5761.
- [73] ALICE, B. B. Abelev *et al.*, Phys. Rev. Lett. **111**, 222301 (2013), 1307.5530.
- [74] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B726**, 164 (2013), 1307.3237.
- [75] ALICE, B. Abelev *et al.*, JHEP **09**, 049 (2013), 1307.1249.
- [76] ALICE, B. B. Abelev *et al.*, Phys. Lett. **B727**, 371 (2013), 1307.1094.
- [77] ALICE, B. B. Abelev *et al.*, Eur. Phys. J. **C73**, 2662 (2013), 1307.1093.
- [78] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **111**, 232302 (2013), 1306.4145.
- [79] ALICE, E. Abbas *et al.*, JINST **8**, P10016 (2013), 1306.3130.
- [80] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **111**, 102301 (2013), 1305.2707.

- [81] ALICE, E. Abbas *et al.*, Eur. Phys. J. **C73**, 2496 (2013), 1305.1562.
- [82] ALICE, E. Abbas *et al.*, Eur. Phys. J. **C73**, 2617 (2013), 1305.1467.
- [83] ALICE, E. Abbas *et al.*, Phys. Lett. **B726**, 610 (2013), 1304.0347.
- [84] ALICE, E. Abbas *et al.*, Phys. Rev. Lett. **111**, 162301 (2013), 1303.5880.
- [85] ALICE, B. Abelev *et al.*, Phys. Rev. **C88**, 044910 (2013), 1303.0737.
- [86] ALICE, B. Abelev *et al.*, Phys. Rev. **C88**, 044909 (2013), 1301.4361.
- [87] ALICE, B. Abelev *et al.*, Phys. Lett. **B723**, 267 (2013), 1301.3756.
- [88] ALICE, B. Abelev *et al.*, Phys. Lett. **B722**, 262 (2013), 1301.3475.
- [89] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **110**, 082302 (2013), 1210.4520.
- [90] ALICE, B. Abelev *et al.*, Phys. Lett. **B718**, 1273 (2013), 1209.3715.
- [91] ALICE, B. Abelev *et al.*, Phys. Lett. **B720**, 52 (2013), 1208.2711.
- [92] PHENIX, A. Adare *et al.*, Phys. Rev. **C87**, 044909 (2013), 1211.4017.
- [93] PHENIX, A. Adare *et al.*, Phys. Rev. **D87**, 012011 (2013), 1209.3278.
- [94] PHENIX, A. Adare *et al.*, Phys. Rev. **C88**, 064910 (2013), 1309.4437.
- [95] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **111**, 202301 (2013), 1305.5516.
- [96] PHENIX, A. Adare *et al.*, Phys. Rev. **C88**, 024906 (2013), 1304.3410.
- [97] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **111**, 212301 (2013), 1303.1794.
- [98] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **111**, 032301 (2013), 1212.3323.
- [99] PHENIX, A. Adare *et al.*, Phys. Rev. **D88**, 032006 (2013), 1209.3283.
- [100] PHENIX, A. Adare *et al.*, Phys. Rev. **C87**, 034904 (2013), 1204.0777.
- [101] WA98, M. M. Aggarwal *et al.*, Nucl. Phys. **A898**, 14 (2013), 1108.5400.
- [102] ALICE, B. Abelev *et al.*, JHEP **03**, 053 (2012), 1201.2423.
- [103] ALICE, B. Abelev *et al.*, JHEP **07**, 116 (2012), 1112.2082.
- [104] ALICE, B. Abelev *et al.*, JHEP **01**, 128 (2012), 1111.1553.
- [105] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **108**, 082001 (2012), 1111.1630.
- [106] ALICE, B. Abelev *et al.*, Eur. Phys. J. **C72**, 2183 (2012), 1208.5717.
- [107] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **109**, 252301 (2012), 1208.1974.
- [108] ALICE, B. Abelev *et al.*, Phys. Lett. **B718**, 279 (2012), 1208.1948.

- [109] ALICE, B. Abelev *et al.*, Phys. Lett. **B717**, 151 (2012), 1206.2056.
- [110] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **109**, 112301 (2012), 1205.6443.
- [111] ALICE, B. Abelev *et al.*, JHEP **11**, 065 (2012), 1205.5880.
- [112] ALICE, B. Abelev *et al.*, Phys. Lett. **B717**, 162 (2012), 1205.5724.
- [113] ALICE, B. Abelev *et al.*, Phys. Rev. **D86**, 112007 (2012), 1205.5423.
- [114] ALICE, B. Abelev *et al.*, JHEP **07**, 191 (2012), 1205.4007.
- [115] ALICE, B. Abelev *et al.*, Eur. Phys. J. **C72**, 2124 (2012), 1205.3963.
- [116] ALICE, B. Abelev *et al.*, Phys. Lett. **B712**, 309 (2012), 1204.0282.
- [117] ALICE, B. Abelev *et al.*, Phys. Lett. **B718**, 295 (2012), 1203.3641, [Erratum: Phys. Lett.B748,472(2015)].
- [118] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **109**, 252302 (2012), 1203.2436.
- [119] ALICE, B. Abelev *et al.*, JHEP **09**, 112 (2012), 1203.2160.
- [120] ALICE, B. Abelev *et al.*, Phys. Lett. **B712**, 165 (2012), 1202.2816.
- [121] ALICE, B. Abelev *et al.*, Phys. Rev. Lett. **109**, 072301 (2012), 1202.1383.
- [122] ALICE, B. Abelev *et al.*, Phys. Lett. **B708**, 265 (2012), 1201.3791.
- [123] ALICE, B. Abelev *et al.*, Phys. Lett. **B710**, 557 (2012), 1112.2222.
- [124] ALICE, K. Aamodt *et al.*, Phys. Lett. **B708**, 249 (2012), 1109.2501.
- [125] PHENIX, A. Adare *et al.*, Phys. Rev. **C86**, 064901 (2012), 1208.2251.
- [126] PHENIX, S. Afanasiev *et al.*, Phys. Rev. Lett. **109**, 152302 (2012), 1205.5759.
- [127] PHENIX, A. Adare *et al.*, Phys. Rev. **D86**, 072008 (2012), 1205.5533.
- [128] PHENIX, A. Adare *et al.*, Phys. Rev. **C86**, 024909 (2012), 1204.0754.
- [129] PHENIX, A. Adare *et al.*, Phys. Rev. **C85**, 064914 (2012), 1203.2644.
- [130] PHENIX, A. Adare *et al.*, Phys. Rev. **D86**, 092006 (2012), 1202.4020.
- [131] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **109**, 122302 (2012), 1105.4126.
- [132] PHENIX, A. Adare *et al.*, Phys. Rev. **D85**, 092004 (2012), 1105.1966.
- [133] CERES, D. Adamova *et al.*, Nucl. Phys. **A894**, 41 (2012), 1205.3692.
- [134] ALICE, K. Aamodt *et al.*, Phys. Rev. Lett. **107**, 032301 (2011), 1105.3865.
- [135] ALICE, K. Aamodt *et al.*, Phys. Lett. **B704**, 442 (2011), 1105.0380, [Erratum: Phys. Lett.B718,692(2012)].

- [136] ALICE, K. Aamodt *et al.*, Eur. Phys. J. **C71**, 1655 (2011), 1101.4110.
- [137] ALICE, K. Aamodt *et al.*, Phys. Rev. **D84**, 112004 (2011), 1101.3665.
- [138] ALICE, K. Aamodt *et al.*, Phys. Lett. **B696**, 328 (2011), 1012.4035.
- [139] ALICE, K. Aamodt *et al.*, Eur. Phys. J. **C71**, 1594 (2011), 1012.3257.
- [140] ALICE, K. Aamodt *et al.*, Phys. Rev. Lett. **106**, 032301 (2011), 1012.1657.
- [141] ALICE, K. Aamodt *et al.*, Phys. Lett. **B696**, 30 (2011), 1012.1004.
- [142] ALICE Collaboration, J. Rak, Nucl.Phys. **A855**, 461 (2011).
- [143] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **107**, 172301 (2011), 1105.5112.
- [144] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **107**, 252301 (2011), 1105.3928.
- [145] PHENIX, A. Adare *et al.*, Phys. Rev. **C84**, 054912 (2011), 1103.6269.
- [146] PHENIX, A. Adare *et al.*, Phys. Rev. **C83**, 064903 (2011), 1102.0753.
- [147] PHENIX, A. Adare *et al.*, Phys. Rev. **C83**, 044912 (2011), 1011.1477.
- [148] PHENIX, A. Adare *et al.*, Phys. Rev. **C84**, 024904 (2011), 1010.1521.
- [149] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **107**, 142301 (2011), 1010.1246.
- [150] PHENIX, A. Adare *et al.*, Phys. Rev. **D83**, 032001 (2011), 1009.6224.
- [151] PHENIX, A. Adare *et al.*, Phys. Rev. **D84**, 012006 (2011), 1009.4921.
- [152] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **106**, 062001 (2011), 1009.0505.
- [153] PHENIX, A. Adare *et al.*, Phys. Rev. **D83**, 052004 (2011), 1005.3674.
- [154] PHENIX, A. Adare *et al.*, Phys. Rev. **C84**, 044905 (2011), 1005.1627.
- [155] PHENIX, A. Adare *et al.*, Phys. Rev. **C83**, 024909 (2011), 1004.3532.
- [156] PHENIX Collaboration, A. Adare *et al.*, Phys.Rev. **C84**, 044902 (2011), 1105.3467.
- [157] WA98, M. M. Aggarwal *et al.*, Phys. Lett. **B701**, 300 (2011), 1103.2489.
- [158] ALICE, K. Aamodt *et al.*, Phys. Rev. Lett. **105**, 252302 (2010), 1011.3914.
- [159] ALICE, K. Aamodt *et al.*, Phys. Rev. Lett. **105**, 252301 (2010), 1011.3916.
- [160] ALICE, K. Aamodt *et al.*, Phys. Rev. **D82**, 052001 (2010), 1007.0516.
- [161] ALICE, K. Aamodt *et al.*, Phys. Lett. **B693**, 53 (2010), 1007.0719.
- [162] ALICE, K. Aamodt *et al.*, Phys. Rev. Lett. **105**, 072002 (2010), 1006.5432.
- [163] ALICE, K. Aamodt *et al.*, Eur. Phys. J. **C68**, 345 (2010), 1004.3514.

- [164] ALICE, K. Aamodt *et al.*, Eur. Phys. J. **C68**, 89 (2010), 1004.3034.
- [165] ALICE EMCAL, J. Allen *et al.*, Nucl. Instrum. Meth. **A615**, 6 (2010), 0912.2005.
- [166] ALICE, K. Aamodt *et al.*, Eur. Phys. J. **C65**, 111 (2010), 0911.5430.
- [167] PHENIX, A. Adare *et al.*, Phys. Rev. **D82**, 112008 (2010), 1009.4864, [Erratum: Phys. Rev.D86,099904(2012)].
- [168] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **105**, 142301 (2010), 1006.3740.
- [169] PHENIX, A. Adare *et al.*, Phys. Rev. **C82**, 011902 (2010), 1005.4916.
- [170] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **105**, 062301 (2010), 1003.5586.
- [171] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **104**, 252301 (2010), 1002.1077.
- [172] PHENIX, A. Adare *et al.*, Phys. Rev. **D82**, 012001 (2010), 0912.2082.
- [173] PHENIX, A. Adare *et al.*, Phys. Rev. **C81**, 034911 (2010), 0912.0244.
- [174] PHENIX, A. Adare *et al.*, Phys. Rev. **D81**, 012002 (2010), 0910.1029.
- [175] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **104**, 132301 (2010), 0804.4168.
- [176] D. Kim, S. Rasanen, and J. Rak, (2010), 1002.2709.
- [177] EMCAL Collaboration, H. Muller *et al.*, Nucl.Instrum.Meth. **A617**, 344 (2010).
- [178] PHENIX, S. Afanasiev *et al.*, Phys. Rev. **C80**, 024909 (2009), 0905.1070.
- [179] PHENIX, S. Afanasiev *et al.*, Phys. Rev. **C80**, 054907 (2009), 0903.4886.
- [180] PHENIX, S. Afanasiev *et al.*, Phys. Rev. Lett. **103**, 142301 (2009), 0903.4863.
- [181] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **103**, 082002 (2009), 0903.4851.
- [182] PHENIX, A. Adare *et al.*, Phys. Rev. **C80**, 024908 (2009), 0903.3399.
- [183] PHENIX, S. Afanasiev *et al.*, Phys. Lett. **B679**, 321 (2009), 0903.2041.
- [184] PHENIX, A. Adare *et al.*, Phys. Rev. **D79**, 012003 (2009), 0810.0701.
- [185] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **103**, 012003 (2009), 0810.0694.
- [186] PHENIX, A. Adare *et al.*, Phys. Lett. **B670**, 313 (2009), 0802.0050.
- [187] PHENIX Collaboration, J. Rak, AIP Conf.Proc. **1105**, 119 (2009).
- [188] CERES, D. Adamova *et al.*, Phys. Lett. **B678**, 259 (2009), 0904.2973.
- [189] CERES Collaboration, D. Adamova *et al.*, Phys.Rev.Lett. (2009), arXiv:0907.2799.
- [190] PHENIX, A. Adare *et al.*, Phys. Rev. **C77**, 011901 (2008), 0705.3238.

- [191] PHENIX, A. Adare *et al.*, Phys. Rev. **C78**, 044902 (2008), 0805.1521.
- [192] PHENIX Collaboration, A. Adare *et al.*, Phys.Rev.Lett. **101**, 162301 (2008), arXiv:0801.4555.
- [193] PHENIX Collaboration, A. Adare *et al.*, Phys.Rev. **C78**, 014901 (2008), arXiv:0801.4545.
- [194] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **101**, 232301 (2008), 0801.4020.
- [195] PHENIX, A. Adare *et al.*, Phys. Rev. **C77**, 064907 (2008), 0801.1665.
- [196] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **101**, 122301 (2008), 0801.0220.
- [197] PHENIX, S. Afanasiev *et al.*, Phys. Rev. Lett. **100**, 232301 (2008), 0712.4372.
- [198] PHENIX, S. Afanasiev *et al.*, Phys. Rev. Lett. **101**, 082301 (2008), 0712.3033.
- [199] PHENIX Collaboration, S. Adler *et al.*, Phys.Rev. **C77**, 014905 (2008), arXiv:0708.2416.
- [200] CERES, D. Adamova *et al.*, Phys. Rev. **C78**, 064901 (2008), 0805.2484.
- [201] CERES, D. Adamova *et al.*, Nucl. Phys. **A811**, 179 (2008), 0803.2407.
- [202] CERES Collaboration, A. Marin *et al.*, PoS **CPOD07**, 034 (2007), arXiv:0802.2679.
- [203] WA98, M. M. Aggarwal *et al.*, Phys. Rev. Lett. **100**, 242301 (2008), 0708.2630.
- [204] D. Kim, R. Diaz, T. Alho, S. Rasanen, and J. Rak, PoS **HIGH-PTLHC08** (2008).
- [205] J. Rak, Nucl.Phys.Proc.Suppl. **177-178**, 167 (2008), arXiv:0711.0981.
- [206] PHENIX, S. S. Adler *et al.*, Phys. Rev. D **D74**, 072002 (2006), hep-ex/0605039.
- [207] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **96**, 032301 (2006), nucl-ex/0510047.
- [208] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **98**, 162301 (2007), nucl-ex/0608033.
- [209] PHENIX Collaboration, S. Afanasiev *et al.*, Phys.Rev.Lett. (2007), arXiv:0706.3034.
- [210] PHENIX, A. Adare *et al.*, Phys. Rev. **D76**, 051106 (2007), 0704.3599.
- [211] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C76**, 034903 (2007), 0704.2894.
- [212] PHENIX, S. Afanasiev *et al.*, Phys. Rev. Lett. **99**, 052301 (2007), nucl-ex/0703024.
- [213] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C75**, 051902 (2007), nucl-ex/0611031.
- [214] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **98**, 232301 (2007), nucl-ex/0611020.
- [215] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **98**, 232302 (2007), nucl-ex/0611019.
- [216] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **98**, 172301 (2007), nucl-ex/0611018.

- [217] PHENIX, A. Adare *et al.*, Phys. Lett. **B649**, 359 (2007), nucl-ex/0611016.
- [218] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **98**, 232002 (2007), hep-ex/0611020.
- [219] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C76**, 034904 (2007), nucl-ex/0611007.
- [220] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C75**, 024909 (2007), nucl-ex/0611006.
- [221] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **98**, 172302 (2007), nucl-ex/0610036.
- [222] PHENIX, S. S. Adler *et al.*, Phys. Rev. **D76**, 092002 (2007), hep-ex/0609032.
- [223] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **98**, 132301 (2007), nucl-ex/0605032.
- [224] J. Rak, Nucl.Phys. **A783**, 471 (2007), hep-ex/0701037.
- [225] PHENIX Collaboration, J. Rak, AIP Conf.Proc. **842**, 128 (2006).
- [226] D. Adamova *et al.*, Phys.Lett. **B666**, 425 (2008), nucl-ex/0611022.
- [227] PHENIX, A. Adare *et al.*, Phys. Rev. Lett. **97**, 252002 (2006), hep-ex/0609010.
- [228] WA98, M. M. Aggarwal *et al.*, Eur. Phys. J. **C48**, 343 (2006), nucl-ex/0607018.
- [229] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **96**, 222301 (2006), nucl-ex/0603017.
- [230] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C74**, 024904 (2006), nucl-ex/0603010.
- [231] PHENIX, S. S. Adler *et al.*, Phys. Rev. **D73**, 091102 (2006), hep-ex/0602004.
- [232] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **96**, 202301 (2006), nucl-ex/0601037.
- [233] J. Rak, Acta Phys.Hung. **A24**, 291 (2005).
- [234] PHENIX, K. Ozawa *et al.*, Eur. Phys. J. **C43**, 421 (2005).
- [235] CERES, J. Bielcikova *et al.*, Eur. Phys. J. **C43**, 323 (2005).
- [236] PHENIX, J. Velkovska *et al.*, Eur. Phys. J. **C43**, 317 (2005).
- [237] PHENIX, H. Busching *et al.*, Eur. Phys. J. **C43**, 303 (2005).
- [238] PHENIX, B. A. Cole *et al.*, Eur. Phys. J. **C43**, 271 (2005).
- [239] PHENIX, O. Drapier *et al.*, Eur. Phys. J. **C43**, 201 (2005).
- [240] PHENIX, M. Rosati *et al.*, Eur. Phys. J. **C43**, 173 (2005).
- [241] CERES, D. Adamova *et al.*, Phys. Rev. Lett. **96**, 152301 (2006), nucl-ex/0512007.
- [242] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **96**, 032302 (2006), nucl-ex/0508019.
- [243] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **96**, 032001 (2006), hep-ex/0508034.
- [244] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **96**, 012304 (2006), nucl-ex/0507032.

- [245] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **95**, 202001 (2005), hep-ex/0507073.
- [246] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **97**, 052301 (2006), nucl-ex/0507004.
- [247] CERES, G. Agakichiev *et al.*, Eur. Phys. J. **C41**, 475 (2005), nucl-ex/0506002.
- [248] PHENIX, J. Rak, J. Phys. **G31**, S541 (2005).
- [249] CERES Collaboration, D. Adamova *et al.*, Nucl.Phys. **A749**, 160 (2005).
- [250] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **94**, 232301 (2005), nucl-ex/0503003.
- [251] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C72**, 024901 (2005), nucl-ex/0502009.
- [252] PHENIX, S. S. Adler *et al.*, Phys. Rev. **D71**, 071102 (2005), hep-ex/0502006.
- [253] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **94**, 082302 (2005), nucl-ex/0411054.
- [254] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **94**, 232302 (2005), nucl-ex/0411040.
- [255] WA98, M. M. Aggarwal *et al.*, Nucl. Phys. **A762**, 129 (2005), nucl-ex/0410045.
- [256] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C72**, 014903 (2005), nucl-ex/0410012.
- [257] PHENIX, K. Adcox *et al.*, Nucl. Phys. **A757**, 184 (2005), nucl-ex/0410003.
- [258] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **94**, 082301 (2005), nucl-ex/0409028.
- [259] CERES Collaboration, H. Appelshauser *et al.*, Nucl.Phys. **A752**, 394 (2005), nucl-ex/0409022.
- [260] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C71**, 034908 (2005), nucl-ex/0409015, [Erratum: Phys. Rev.C71,049901(2005)].
- [261] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C71**, 051902 (2005), nucl-ex/0408007.
- [262] WA98, M. M. Aggarwal *et al.*, Eur. Phys. J. **C41**, 287 (2005), nucl-ex/0406022.
- [263] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **94**, 122302 (2005), nucl-ex/0406004.
- [264] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **93**, 202002 (2004), hep-ex/0404027.
- [265] J. Rak, J.Phys.G **G30**, S1309 (2004), hep-ex/0403038.
- [266] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **93**, 152302 (2004), nucl-ex/0401003.
- [267] WA98, M. M. Aggarwal *et al.*, Phys. Rev. Lett. **93**, 022301 (2004), nucl-ex/0310022.
- [268] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **93**, 092301 (2004), nucl-ex/0310005.
- [269] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C69**, 034910 (2004), nucl-ex/0308006.
- [270] WA98 Collaboration, S. Nikolaev *et al.*, Nucl.Phys. **A715**, 579 (2003).

- [271] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C69**, 034909 (2004), nucl-ex/0307022.
- [272] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **92**, 051802 (2004), hep-ex/0307019.
- [273] PHENIX Collaboration, J. Rak, nucl-ex/0306031 , 176 (2003), nucl-ex/0306031.
- [274] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **91**, 072303 (2003), nucl-ex/0306021.
- [275] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **91**, 172301 (2003), nucl-ex/0305036.
- [276] PHENIX, S. S. Adler *et al.*, Phys. Rev. **C69**, 014901 (2004), nucl-ex/0305030.
- [277] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **91**, 182301 (2003), nucl-ex/0305013.
- [278] CERES, D. Adamova *et al.*, Nucl. Phys. **A727**, 97 (2003), nucl-ex/0305002.
- [279] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **91**, 072301 (2003), nucl-ex/0304022.
- [280] PHENIX, S. S. Adler *et al.*, Phys. Rev. Lett. **91**, 241803 (2003), hep-ex/0304038.
- [281] CERES/NA45 Collaboration, J. P. Wessels *et al.*, Nucl.Phys. **A715**, 262 (2003), nucl-ex/0212015.
- [282] WA98, M. M. Aggarwal *et al.*, Phys. Rev. **C67**, 014906 (2003), nucl-ex/0210002.
- [283] CERES/NA45, D. Adamova *et al.*, Phys. Rev. Lett. **91**, 042301 (2003), nucl-ex/0209024.
- [284] B. Mohanty *et al.*, Nucl.Phys. **A715**, 339 (2003), nucl-ex/0208019.
- [285] CERES, D. Adamova *et al.*, Phys. Rev. Lett. **90**, 022301 (2003), nucl-ex/0207008.
- [286] CERES, D. Adamova *et al.*, Nucl. Phys. **A714**, 124 (2003), nucl-ex/0207005.
- [287] WA98, M. M. Aggarwal *et al.*, Phys. Rev. **C67**, 044901 (2003), nucl-ex/0206017.
- [288] WA98 Collaboration, L. Rosselet *et al.*, Nucl.Phys. **A698**, 647 (2002).
- [289] CERES Collaboration, D. Adamova *et al.*, Nucl.Phys. **A698**, 253 (2002).
- [290] M. Aggarwal *et al.*, Nucl.Phys. **A698**, 135 (2002).
- [291] CERES, W. Schmitz *et al.*, J. Phys. **G28**, 1861 (2002), nucl-ex/0201002.
- [292] WA98, M. M. Aggarwal *et al.*, Phys. Rev. **C65**, 054912 (2002), nucl-ex/0108029.
- [293] WA98, M. M. Aggarwal *et al.*, Eur. Phys. J. **C23**, 225 (2002), nucl-ex/0108006.
- [294] WA98 Collaboration, T. K. Nayak *et al.*, Pramana **57**, 285 (2001), nucl-ex/0103007.
- [295] WA98, M. M. Aggarwal *et al.*, Phys. Rev. **C64**, 011901 (2001), nucl-ex/0012004.
- [296] WA98, M. M. Aggarwal *et al.*, Phys. Rev. Lett. **85**, 2895 (2000), hep-ex/0008018.

- [297] WA98, M. M. Aggarwal *et al.*, Eur. Phys. J. **C18**, 651 (2001), nucl-ex/0008004.
- [298] WA98 Collaboration, M. Aggarwal *et al.*, Nucl.Phys. **A663**, 729 (2000).
- [299] WA98, M. M. Aggarwal *et al.*, Phys. Rev. Lett. **85**, 3595 (2000), nucl-ex/0006008.
- [300] WA98 Collaboration, M. Aggarwal *et al.*, Phys.Rev.C (2000), nucl-ex/0006007.
- [301] WA98, M. M. Aggarwal *et al.*, Phys. Lett. **B477**, 37 (2000).
- [302] WA98, M. M. Aggarwal *et al.*, Eur. Phys. J. **C16**, 445 (2000), hep-ex/0003009.
- [303] CERES Collaboration, G. Agakishiev *et al.*, Nucl.Phys. **A661**, 673 (1999).
- [304] WA98 Collaboration, M. Aggarwal *et al.*, Nucl.Phys. **A661**, 464 (1999).
- [305] WA98, M. M. Aggarwal *et al.*, Phys. Lett. **B469**, 30 (1999).
- [306] CERES-Collaboration, B. Lenkeit *et al.*, Nucl.Phys. **A661**, 23 (1999), nucl-ex/9910015.
- [307] WA98 Collaboration, T. K. Nayak *et al.*, Nucl.Phys. **A663**, 745 (2000), nucl-ex/9909018.
- [308] WA98, M. M. Aggarwal *et al.*, Phys. Lett. **B458**, 422 (1999), nucl-ex/9903006.
- [309] WA98, M. M. Aggarwal *et al.*, Phys. Rev. Lett. **83**, 926 (1999), nucl-ex/9901009.
- [310] WA98 Collaboration, M. Aggarwal *et al.*, Nucl.Phys. **A661**, 427 (1999).
- [311] WA98 Collaboration, T. Peitzmann *et al.*, Nucl.Phys. **A661**, 191 (1999).
- [312] V. Wiaux *et al.*, Phys.Atom.Nucl. **61**, 1301 (1998).
- [313] CERES Collaboration, G. Agakishiev *et al.*, Nucl.Phys. **A638**, 467 (1998).
- [314] WA98 Collaboration, M. Aggarwal *et al.*, Nucl.Phys. **A638**, 459 (1998).
- [315] CERES Collaboration, G. Agakishiev *et al.*, Nucl.Phys. **A638**, 159 (1998).
- [316] WA98 Collaboration, M. Aggarwal *et al.*, Nucl.Phys. **A638**, 147 (1998).
- [317] WA98 Collaboration, M. Aggarwal *et al.*, Phys.Rev.Lett. (1998), nucl-ex/9807004.
- [318] WA98, M. M. Aggarwal *et al.*, Phys. Rev. Lett. **81**, 4087 (1998), nucl-ex/9806004, [Erratum: Phys. Rev. Lett.84,578(2000)].
- [319] WA98 Collaboration, M. Aggarwal *et al.*, Prog.Theor.Phys.Suppl. **129**, 179 (1997).
- [320] WA98 Collaboration, T. K. Nayak *et al.*, Nucl.Phys. **A638**, 249C (1998), hep-ex/9802019.
- [321] CERES/NA45, G. Agakishiev *et al.*, Phys. Lett. **B422**, 405 (1998), nucl-ex/9712008.

- [322] WA98, M. M. Aggarwal *et al.*, Phys. Lett. **B420**, 169 (1998), hep-ex/9710015.
- [323] CERES Collaboration, T. Ullrich *et al.*, Nucl.Phys. **A610**, 317C (1996).
- [324] G. Agakishiev *et al.*, Nucl.Instrum.Meth. **A394**, 225 (1997).
- [325] WA98 Collaboration, T. Peitzmann *et al.*, Nucl.Phys. **A610**, 200C (1996).
- [326] V. Brudanin *et al.*, Nucl.Phys. **A587**, 577 (1995).