

List of Francesco Prino's publications until December 2013

NA50 experiment

1. B. Alessandro et al., “*Radiation damage of silicon strip detectors in the NA50 experiment*”, Nucl. Instr. and Meth. in Phys. Res. **A419** (1998) 556.
2. B. Alessandro et al., “*Analysis of radiation effects on silicon strip detectors in the NA50 experiment*”, Nucl. Instr. and Meth. in Phys. Res. **A432** (1999) 342.
3. M.C. Abreu et al., NA50 Collaboration, “*Observation of a threshold effect in the anomalous J/ψ suppression*”, Physics Letters **B450** (1999) 456.
4. M.C. Abreu et al., NA38 and NA50 Collaborations, “*Low mass dimuon production in proton and ion induced interactions at SPS*”, Eur. Phys. J. **C13** (2000) 69.
5. M.C. Abreu et al., NA50 Collaboration, “*Evidence for deconfinement of quarks and gluons from the J/ψ suppression, pattern measured in Pb-Pb collisions at the CERN-SPS*”, Phys. Lett. **B477** (2000) 28.
6. M.C. Abreu et al., NA50 Collaboration, “*Transverse momentum distributions of J/ψ , ψ' , Drell-Yan and continuum dimuons produced in Pb-Pb interactions at the SPS*”, Physics Letters **B499** (2001) 85.
7. M.C. Abreu et al., NA50 Collaboration, “*The dependence of the anomalous J/ψ suppression on the number of participant nucleons*”, Phys. Lett. **B521** (2001) 195.

8. M.C. Abreu et al., NA50 Collaboration, “*Pseudorapidity distributions of charged particles as a function of centrality in Pb-Pb collisions at 158 GeV and 40 GeV per nucleon incident energies*”, Phys. Lett. **B530** (2002) 33.
9. M.C. Abreu et al., NA50 Collaboration, “*Scaling of charged particle multiplicity in Pb-Pb collisions at SPS energies*”, Phys. Lett. **B530** (2002) 43.
10. B. Alessandro et al., “*The Silicon Multiplicity Detector For The NA50 Experiment At Cern*”, Nucl. Instr. and Meth. in Phys. Res. **A493** (2002) 30.
11. B. Alessandro et al., NA50 Collaboration, “*Charmonia And Drell-Yan Production In Proton Nucleus Collisions At The Cern Sps*”, Phys. Lett. **B553** (2003) 167.
12. B. Alessandro et al., NA50 Collaboration, “*Phi production in Pb-Pb collisions at 158 GeV/c per nucleon incident momentum*”, Phys. Lett. **B555** (2003) 147.
13. B. Alessandro et al., NA50 Collaboration, “*Fission cross sections of lead projectiles in Pb-nucleus interactions at 40 and 158 GeV/c per nucleon*”, Phys. Rev.**C 69** (2004) 034904.
14. B. Alessandro et al., NA50 Collaboration, “*Charmonium production and nuclear absorption in p-A interactions at 450 GeV*”, Eur. Phys. Journ. **C33** (2004) 31.
15. B. Alessandro et al., NA50 Collaboration, “*A new measurement of J/ψ suppression in Pb-Pb collisions at 158 GeV per nucleon*”, Eur. Phys. Journ. **C39** (2005) 335.
16. B. Alessandro et al., NA50 Collaboration,, “ *Bottomonium and Drell-Yan production in p-A collisions at 450- GeV.* ” Phys.Lett. **B635** (2006), 260.
17. B. Alessandro et al., NA50 Collaboration, “ *J/ψ and ψ' production and their normal nuclear absorption in proton-nucleus collisions at 400 GeV*” Eur. Phys. Journ. **C48** (2006) 329.

18. B. Alessandro et al., NA50 Collaboration, “ ψ' production in Pb-Pb collisions at 158-GeV/nucleon.” Eur. Phys. Journ. **C49** (2007) 559.

ALICE Experiment

1. ALICE Collaboration et al , “ALICE: Physics Performance Report, Volume I” J. Phys. G: Nucl. Part. Phys. **30** (2004) 1517.
2. ALICE Collaboration et al , “ALICE: Physics Performance Report, Volume II” J. Phys. G: Nucl. Part. Phys. **32** (2006) 1295.
3. K. Aamodt et al. [ALICE Collaboration] , “The Alice Experiment At The Cern LHC” JINST **3** (2008) S08002.
4. G. Batigne et al., “Characterization of the ALICE Silicon Drift Detectors using an infrared laser” JINST **3** (2008) P06004.
5. B. Alessandro et al., “Charge collection in the Silicon Drift Detectors of the ALICE experiment” JINST **5** (2010) P02008
6. K. Aamodt et al., ALICE Collaboration “Alignment of the ALICE Inner Tracking System with cosmic-ray tracks” JINST **5** (2010) P03003
7. B. Alessandro et al., “Operation and calibration of the Silicon Drift Detectors of the ALICE experiment during the 2008 cosmic ray data taking period” JINST **5** (2010) P04004
8. K. Aamodt et al., ALICE Collaboration “First protonproton collisions at the LHC as observed with the ALICE detector: measurement of the charged-particle pseudorapidity density at $s=900$ GeV” Eur. Phys. J. C65 (2010) 111.
9. K. Aamodt et al., ALICE Collaboration “Midrapidity Antiproton-to-Proton Ratio in pp Collisions at $s=0.9$ and 7 TeV Measured by the ALICE Experiment” Phys Rev Lett 105 (2010) 072002

10. K. Aamodt et al., ALICE Collaboration “*Charged-particle multiplicity measurement in protonproton collisions at $s=0.9$ and 2.36 TeV with ALICE at LHC*” Eur. Phys. J. C68 (2010) 89.
11. K. Aamodt et al., ALICE Collaboration “*Charged-particle multiplicity measurement in protonproton collisions at $s=7$ TeV with ALICE at LHC*” Eur. Phys. J. C68 (2010) 345.
12. K. Aamodt et al., ALICE Collaboration “*Transverse momentum spectra of charged particles in protonproton collisions at $s=900$ GeV with ALICE at the LHC*” Physics Letters B 693 (2010) 53.
13. K. Aamodt et al., ALICE Collaboration “*Two-pion Bose-Einstein correlations in pp collisions at $s=900$ GeV*” Phys. Rev. D 82 (2010) 052001.
14. K. Aamodt et al., ALICE Collaboration “*Charged-particle multiplicity density at mid-rapidity in central Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Phys. Rev. Lett. 105 (2010) 252301
15. K. Aamodt et al., ALICE Collaboration “*Elliptic flow of charged particles in Pb-Pb collisions at 2.76 TeV*” Phys. Rev. Lett. 105 (2010) 252302
16. K. Aamodt et al., ALICE Collaboration “*Centrality dependence of the charged-particle multiplicity density at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Phys. Rev. Lett. 106 (2011) 032301
17. K. Aamodt et al., ALICE Collaboration “*Suppression of Charged Particle Production at Large Transverse Momentum in Central Pb-Pb Collisions at $s_{NN} = 2.76$ TeV*” Phys. Lett. B 696 (2011) 30
18. K. Aamodt et al., ALICE Collaboration “*Two-pion Bose-Einstein correlations in central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Phys. Lett. B 696 (2011) 328

19. K. Aamodt et al., ALICE Collaboration “*Harmonic decomposition of two-particle angular correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Phys.Lett. B708 (2012) 249
20. K. Aamodt et al., ALICE Collaboration “*Strange particle production in proton-proton collisions at $s = 0.9$ TeV with ALICE at the LHC*” Eur.Phys.J.C71 (2011) 1594.
21. K. Aamodt et al., ALICE Collaboration “*Production of pions, kaons and protons in pp collisions at $\sqrt{s} = 900$ GeV with ALICE at the LHC*” Eur.Phys.J.C71 (2011) 1655.
22. K. Aamodt et al., ALICE Collaboration “*Femtoscopy of pp collisions at $\sqrt{s} = 0.9$ and 7 TeV at the LHC with two-pion Bose-Einstein correlations*” Phys. Rev. D 84 (2011) 112004
23. K. Aamodt et al., ALICE Collaboration “*Particle-yield modification in jet-like azimuthal di-hadron correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Phys. Rev. Lett. 108 (2012) 092301
24. B. Abelev et al., ALICE Collaboration “*Measurement of charm production at central rapidity in proton-proton collisions at $\sqrt{s} = 7$ TeV*” JHEP 01 (2012) 128
25. B. Abelev et al., ALICE Collaboration “*J/psi polarization in pp collisions at $\sqrt{s} = 7$ TeV*” Phys.Rev.Lett. 108 (2012) 082001
26. B. Abelev et al., ALICE Collaboration “*Measurement of Event Background Fluctuations for Charged Particle Jet Reconstruction in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” JHEP 03 (2012) 053
27. B. Abelev et al., ALICE Collaboration “*Heavy flavour decay muon production at forward rapidity in proton-proton collisions at $\sqrt{s} = 7$ TeV*” Phys. Lett. B 708 (2012) 265
28. B. Abelev et al., ALICE Collaboration “*Light vector meson production in pp collisions at $\sqrt{s} = 7$ TeV*” Physics Letters B 710 (2012) 557

29. B. Abelev et al., ALICE Collaboration “*J/psi Production as a Function of Charged Particle Multiplicity in pp Collisions at $s = 7 \text{ TeV}$* ” Phys.Lett. B712 (2012) 165
30. B. Abelev et al., ALICE Collaboration “*Multi-strange baryon production in pp collisions at $s = 7 \text{ TeV}$ with ALICE*” Phys. Lett. B 712 (2012) 309
31. B. Abelev et al., ALICE Collaboration “*Underlying Event measurements in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the ALICE experiment at the LHC*” JHEP 1207 (2012) 116
32. B. Abelev et al., ALICE Collaboration “*Measurement of charm production at central rapidity in proton proton collisions at $\sqrt{s}=2.76 \text{ TeV}$* ” JHEP 1207 (2012) 191
33. B. Abelev et al., ALICE Collaboration “*Transverse sphericity of primary charged particles in minimum bias proton-proton collisions at $\sqrt{s}=0.9, 2.76$ and 7 TeV* ” Eur. Phys. J. C72 (2012) 2124
34. B. Abelev et al., ALICE Collaboration “*J/psi suppression at forward rapidity in Pb-Pb collisions at $s_{NN} = 2.76 \text{ TeV}$* ” Phys. Rev. Lett. 109 (2012) 072301
35. B. Abelev et al., ALICE Collaboration “*Production of muons from heavy flavour decays at forward rapidity in pp and Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$* ” Phys. Rev. Lett. 109 (2012) 112301
36. B. Abelev et al., ALICE Collaboration “*Suppression of high transverse momentum prompt D mesons in central Pb-Pb collisions at $\sqrt{s_{NN}}=2.76 \text{ TeV}$* ” JHEP 09 (2012) 112
37. B. Abelev et al., ALICE Collaboration “*Neutral pion and eta meson production in proton-proton collisions at $\sqrt{s} = 0.9 \text{ TeV}$ and 7 TeV* ” Physics Letters B 717 (2012) 162

38. B. Abelev et al., ALICE Collaboration “*K0s-K0s correlations in 7 TeV pp collisions from the LHC ALICE experiment*” Physics Letters B 717 (2012) 151
39. B. Abelev et al., ALICE Collaboration “*Production of $K^*(892)0$ and $\phi(1020)$ in pp collisions at $\sqrt{s}=7\text{TeV}$ ” Eur. Phys. J. C72(2012) 2183.*
40. B. Abelev et al., ALICE Collaboration “*Rapidity and transverse momentum dependence of inclusive J/psi production in pp collisions at $\sqrt{s}=7\text{ TeV}$ ” Physics Letters B 718 (2012) 692.*
41. B. Abelev et al., ALICE Collaboration “*Measurement of prompt J/psi and beauty hadron production cross sections at mid-rapidity in pp collisions at $\sqrt{s}=7\text{ TeV}$ ” JHEP11 (2012) 065*
42. B. Abelev et al., ALICE Collaboration “*Ds meson production at central rapidity in proton-proton collisions at $\sqrt{s} = 7\text{ TeV}$ ” Physics Letters B 718 (2012) 279*
43. B. Abelev et al., ALICE Collaboration “*Inclusive J/psi production in pp collisions at $\sqrt{s}=2.76\text{ TeV}$ ” Phys.Lett. B718 (2012) 295*
44. B. Abelev et al., ALICE Collaboration “*Measurement of electrons from semileptonic heavy-flavour hadron decays in pp collisions at $\sqrt{s} = 7\text{ TeV}$ ” Phys. Rev. D 86 (2012) 112007*
45. B. Abelev et al., ALICE Collaboration “*Pion, Kaon, and Proton Production in Central Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76\text{ TeV}$ ” Phys. Rev. Lett. 109 (2012) 252301*
46. B. Abelev et al., ALICE Collaboration “*Measurement of the Cross Section for Electromagnetic Dissociation with Neutron Emission in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76\text{ TeV}$ ” Phys. Rev. Lett. 109 (2012) 252302*

47. B. Abelev et al., ALICE Collaboration “*Coherent J/Psi photo-production in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Physics Letters B 718 (2013) 1273.
48. B. Abelev et al., ALICE Collaboration “*Centrality Dependence of Charged Particle Production at Large Transverse Momentum in Pb–Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Physics Letters B 720 (2013) 52
49. B. Abelev et al., ALICE Collaboration “*Charged kaon fem-toscopic correlations in pp collisions at $\sqrt{s} = 7$ TeV.*” Phys. Rev. D 87 (2013) 052016
50. B. Abelev et al., ALICE Collaboration “*Net-Charge Fluctua-tions in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Phys. Rev. Lett. 110 (2013) 152301
51. B. Abelev et al., ALICE Collaboration “*Charge separation rel-ative to the reaction plane in Pb–Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Phys.Rev.Lett. 110 (2013) 012301
52. B. Abelev et al., ALICE Collaboration “*Pseudorapidity density of charged particles in p-Pb collisions at $\sqrt{s} = 5.02$ TeV*” Phys. Rev. Lett. 110 (2013) 032301
53. B. Abelev et al., ALICE Collaboration “*Transverse Momen-tum Distribution and Nuclear Modification Factor of Charged Particles in p-Pb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV*” Phys. Rev. Lett. 110 (2013) 082302
54. B. Abelev et al., ALICE Collaboration “*Anisotropic flow of charged hadrons, pions and (anti-)protons measured at high transverse momentum in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV*” Physics Letters B 719 (2013) 18
55. B. Abelev et al., ALICE Collaboration “*Long-range angular correlations on the near and away side in p–Pb collisions at $\sqrt{s} = 5.02$ TeV*” Physics Letters B 719 (2013) 29

56. B. Abelev et al., ALICE Collaboration “*Measurement of electrons from beauty hadron decays in pp collisions at $s = 7$ TeV*” Physics Letters B 721 (2013) 13
57. B. Abelev et al., ALICE Collaboration “*Measurement of the inclusive differential jet cross section for pp collisions at $s=2.76$ TeV*” Physics Letters B 722 (2013) 262
58. B. Abelev et al., ALICE Collaboration “*Measurement of inelastic, single and double diffraction cross sections in proton-proton collisions at LHC with ALICE*” Eur. Phys. J. C73 (2013) 2456
59. B. Abelev et al., ALICE Collaboration “*Charge correlations using the balance function in PbPb collisions at $s_{NN} = 2.76$ TeV*” Physics Letters B 723 (2013) 267
60. B. Abelev et al., ALICE Collaboration “*Mid-rapidity anti-baryon to baryon ratios in pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV measured by ALICE*” Eur. Phys. J. C73 (2013) 2496
61. B. Abelev et al., ALICE Collaboration “*Multiplicity dependence of two-particle azimuthal correlations in pp collisions at the LHC*” JHEP09 (2013) 049
62. B. Abelev et al., ALICE Collaboration “*D meson elliptic flow in non-central PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV*” Phys. Rev. Lett 111 (2013) 102301
63. B. Abelev et al., ALICE Collaboration “*J/psi Elliptic Flow in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV*” Phys. Rev. Lett 111 (2013) 162301
64. B. Abelev et al., ALICE Collaboration “*Long-range angular correlations of π , K and p in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV*” Physics Letters B 726 (2013) 164
65. B. Abelev et al., ALICE Collaboration “*Centrality dependence of the pseudorapidity density distribution for charged particles in Pb-Pb collisions at $s_{NN} = 2.76$ TeV*” Physics Letters B 726 (2013) 610

66. B. Abelev et al., ALICE Collaboration “*Centrality determination of Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76\text{TeV}$ in the ALICE experiment*” Phys. Rev. C88 (2013) 044909
67. B. Abelev et al., ALICE Collaboration “*Centrality dependence of Pion, Kaon, and Proton Production in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76\text{ TeV}$* ” Phys. Rev. C88 (2013) 044910
68. B. Abelev et al., ALICE Collaboration “*Multiplicity dependence of the average transverse momentum in pp, p-Pb, and Pb-Pb collisions at the LHC*” Physics Letters B 727 (2013) 371
69. B. Abelev et al., ALICE Collaboration “*Energy Dependence of the Transverse Momentum Distributions of Charged Particles in pp Collisions with ALICE*” Eur. Phys. J. C73 (2013) 2662
70. B. Abelev et al., ALICE Collaboration “*K0s and Lambda production in PbPb collisions at $\sqrt{s_{NN}}=2.76\text{ TeV}$* ” Phys. Rev. Lett. 111 (2013) 222301
71. B. Abelev et al., ALICE Collaboration “*Charmonium and e+e- pair photoproduction at mid-rapidity in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76\text{ TeV}$* ” Eur. Phys. J. C73 (2013) 2617

Monte Carlo simulations

1. M. Masera et al. “*Anisotropic transverse flow introduction in Monte Carlo generators for heavy ion collisions*” Phys.Rev. C79 (2009) 064909

Heavy-quark transport in the QGP

1. W.M. Albertico et al. “*Heavy-flavour spectra in high energy nucleus-nucleus collisions*” Eur.Phys.J. C71 (2011) 1666
2. W.M. Albertico et al. “*Heavy flavors in AA collisions: production, transport and final spectra*” Eur.Phys.J. C73 (2013) 2481

Silicon detectors for dual-energy X-ray imaging

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2. A. Sarnelli et al., “*K-edge digital subtraction imaging based on a dichromatic and compact x-ray source*”, Phys. Med. Biol. **49** (2004) 3291
3. P. Grybos et al “*RX64DTH -A Fully Integrated 64-Channel ASIC for a Digital X-ray Imaging System With Energy Window Selection*” IEEE Transaction on Nuclear Science, **vol. 52 no.4**, (2005) 839.
4. C. Avila et al, “*Contrast cancellation technique applied to digital X-ray imaging using silicon strip detectors*” Medical Physics **vol. 32 issue 12**, (2005) 3755.
5. P. Baldelli et al., “*Application of the K-edge technique to map pigments of art paintings: Preliminary results.*” Il Nuovo Cimento **vol. 29C, N. 6** (2006), 663.
6. F. Prino et al., “*Effect of X-ray energy dispersion in digital subtraction imaging at the iodine K-edge - A Monte Carlo study*” Medical Physics **vol. 35 issue 1**, (2008) 13.
7. L. Bolanos et al., “*A digital X-ray imaging system based on silicon strip detectors working in edge-on configuration.*” Nucl. Instr. and Meth. in Phys. Res. **A608** (2009) 410.