

## **dr. Tome Anticic**

### **Curriculum vitae**

#### **Osobni podatci:**

- **Mjesto i datum rođenja:** 04.09.1969., Split, Hrvatska
- **Državljanstvo:** Hrvatsko
- **tel:** 00 385 - 91 2753 690
- **email:** [tome.anticic@gmail.com](mailto:tome.anticic@gmail.com)
- **web:** <http://tkojetko.irb.hr/znanstvenikDetalji.php?sifznan=6950>

#### **Obrazovanje:**

- **Doktorat iz eksperimentalne fizike visokih energija:**  
“Purely Leptonic Decays of Heavy Flavour Mesons”, Johns Hopkins University, Baltimore, USA, 1997.
- **Magisterij - (“Part III of Math Tripos”),** Cambridge University, Cambridge, Engleska, 1991.
- **B.Sc. - fizika,** “First Class Honors”, University of London, Engleska, 1990.

#### **Akademsko radno iskustvo:**

- Ravnatelj Instituta Ruđer Bošković (IRB, [www.irb.hr](http://www.irb.hr)), Zagreb, Hrvatska (08/12 - ...)
- Predstojnik Zavoda za eksperimentalnu fiziku na IRB-u (12/08 -08/12)
- Viši znanstveni suradnik, IRB, Zagreb, (03/08 – ...)
- Znanstveni suradnik, IRB, Zagreb, (11/03 – 03/08)
- Viši asistent, IRB, Zagreb, (10/97 –11/03)
- Postdoktorat na Johns Hopkins University, Baltimore, SAD (5/97- 8/97)
- “Research Assistant”, L3 eksperiment, CERN, Geneva, Švicarska (4/95 – 4/97)
- “Teaching Assistant”, Johns Hopkins University, SAD (9/92 – 4/95)

#### **Članstva u znanstvenim eksperimentima:**

- Pierre Auger Observatorij, Malargue, Argentina (2008- ...)
- NA61 eksperiment, CERN, Geneva, Švicarska (2007 – ...)
- ALICE eksperiment, CERN, Geneva, Švicarska (2000 – ...)
- NA49 eksperiment, CERN, Geneva, Švicarska (1998 – ...)
- CMS eksperiment, Johns Hopkins University, SAD (5/97-8/97)
- L3 eksperiment, CERN, Geneva, Švicarska (1993-2000)

#### **Dodatna školovanja:**

- “Innovation Promotion, Technology Transfer and Successful Technology Licensing (STL)”, organizirano od strane “World Intellectual Property Organization/IAEA”, 07/2010, Beč
- Regionalna radionica “How to design a successful strategy and undertake research at a European level”, Hyperion Ltd., IAEA, 09/2009, Beč
- “Strengthening the Intellectual Property Implementation System”, CARDS 2003, 11/2006, Zagreb
- Brojni seminari na temu pisanja i vođenja FP7 projekata i strukturnih projekata, 2006 do 2012.

### **Računalno programiranje:**

- Izvrsno znanje:
  - C++, C, Fortran, Visual Basic, perl, http, php, sql,
  - Apache, GEANT, Access, ROOT, Ptolemy, mySQL
  - Linux, Windows, VMS

### **Jezici:**

- Tečno: engleski, hrvatski, njemački
- Srednje: francuski

### **Glavni doprinosi:**

- **Horizon2020, FP7, strukturni fondovi i vezane pozicije i aktivnosti:**
  - Voditelj IRB tima koji je predložio strukturni projekt O-ZIP (otkako je ravnatelj IRB-a više nije zadužen za koordinaciju O-ZIP-a). Taj 60 milijuna eura vrijedan projekt je najveći strukturni projekt pri MZO-u, i financiran je kroz Operativni program za konkurentnost i koheziju 2014-2020. Fokus će biti na napredne tehnologije i materijale, zaštite okoliša i morskih znanosti, biotehnologije i ICT-a.
  - Koordinator 1.320,000 Eura vrijednog FP7 projekta: "Upgraded Facility for Development of Silicon and Diamond Particle Detector Systems" - Particle Detectors, (8/10-8/13) (web: <http://lnr.irb.hr/pd>).
  - Koautor (u suradnji s koordinatorom N. Soićem, te s S. Fazinićem) i voditelj radnog paketa 2.700.000 Eura vrijednog Horizon 2020-WIDESPREAD-2014-2 ERA Chair projekta: "Expanding Potential in Particle and Radiation Detectors, Sensors and Electronics in Croatia"- PaRaDeSEC, 06/2015.
  - Član Marie Skłodowska Curie savjetodavne grupe za Horizon 2020.
  - Službeni predstavnik Vlade Republike Hrvatske u ESFRI (“European Strategy Forum on Research Infrastructures”).
  - Član odbora za fizikalne znanosti i inženjstvo u ESFRI.

- Imenovan od strane Ministarstva znanosti, obrazovanja i sporta Republike Hrvatske za voditelja Strateškog odbora za istraživačku infrastrukturu.
- Imenovan od strane Ministarstva znanosti, obrazovanja i sporta Republike Hrvatske za predsjednika povjerenstva za povećanje stope uspjeha Hrvatske u FP7 i vezanim EU programa (2012- 2013)
- Imenovan od strane Ministarstva znanosti, obrazovanja Republike Hrvatske i sporta kao jedan od dva stručnjaka za “FP7 Cooperation – Energy” odbor (3/11 - 13)
- Vanjski stručnjak za brojne FP7 seminare
- **Ravnatelj IRB-a**, najvećeg istraživačkog instituta u Hrvatskoj u fundamentalnim znanostima (fizika/kemija/biologija/medicina/okoliš i more/ICT, 320 trajno znanstvenog osoblja, 850 zaposlenih):
  - Uspostavio puno jači naglasak na znatno bolju suradnju s industrijom, unutar i izvan Hrvatske. Uveo načelo da su patenti i industrijska suradnja važan kriterij za napredovanje. Promijenio pravilnik IRB intelektualnog vlasništva radi maksimalne stimulacije znanstvenika za podnošenje patentnih prijava i za suradnju s gospodarstvom.
  - Reorganizirao IRB operacije tako da kapitalna oprema postaje, za razliku od uobičajene prakse, dostupna znanstvenicima izvan laboratorija i izvan IRB-a.
  - Uveo fiskalno odgovorno ponašanje, eliminirajući brojne nepotrebne velike izvore rashoda, te naglašavajući važnost stjecanja novih izvora prihoda. Smanjio rashode za 50%.
  - Stavljen prioritet na aktivnosti kao što su podnošenje FP7 projekta. Uvedene nagrade za najbolje prijavljene međunarodne projekte. Uspješnost FP7 projekata porasla je za 500%, a IRB je povećao svoj udio HrZZ projekta iz prirodnih znanosti na 50%.
  - Uspostavio brojne procedure i podzakonske akte radi osiguranja nesmetanog funkcioniranja svih razina IRB uprave te radi uklanjanja brojnih izvora sukoba. Uveo ograničenje broja mandata i broja paralelnih funkcija za sve ključne pozicije, te uspostavio automatsko uključivanje na ključne položaje znanstvenike koji dobiju FP7 i komercijalne projekte. Uspostavio princip da je postdoktorski rad izvan Hrvatske nužan za dobivanje znanstveno radon mjesto na IRB-u.
  - Naglasak na strane znanstvenike, i na privlačenje znanstvenika povratnika. Povećan broj stranih znanstvenika za više od tri puta.

- Uspostavljen naglasak na strukturne fondove. IRB-u je kao rezultat toga odobren od strane Operativnog programa 2014-2020 projekt O-ZIP - 60 milijuna eura vrijedan strukturni projekt, najveći strukturni projekt pri MZOS-u.
- Naglasak na diseminaciju znanosti, te na IRB znanstvene i industrijske aktivnosti.

### **Organizacija radionica i sastanaka:**

- Diamond Detectors workshop - FP7 „Particle Detectors“ – 05/2012, Plitvice
- NA61/CERN Collaboration week - IRB – 10/2011
- DAQ workshop - FP7 „Particle Detectors“ – 11/2011
- Silicon Detectors workshop, - FP7 „Particle Detectors“ – 10/2012, Split
- Član organizacijskog odbora za brojne skupove

### **Pozvana međunarodna predavanja:**

- **Inclusive production of hyperons, as well as of pions, charged kaons, protons, anti-protons and neutrons in p+p collisions at 158 GeV/c beam momentum**, International Conference on High Energy Physics (ICHEP), Paris, Francuska, 07/2010.
- **Hyperon analysis at the NA49 experiment**, Symposium on proton-proton reactions, Frankfurt, Njemačka, 02/2010.
- **Determining the best phenomenological model for hadronic interactions using the anti-Omega to Omega ratio in proton-proton collisions**, Astroparticle Physics: Current Issues 2007 (APCI07), Budimpešta, Mađarska, 2007.
- **AFFAIR : a fast cluster and application monitoring software package**, ROOT 2005 Workshop, Geneva, Švicarska, 27-29.09.2005.
- **NA49 results on exotic Xi states**, Workshop on Exotic Baryons, Trento, Italija, 21-24.02.2005.
- **A new pentaquark: can the correct pentaquark model already be determined?**, MIT Theory seminar, Boston, SAD, 21.11.2003.
- **Simulating the ALICE HLT**, HLT workshop, Heidelberg University, 2003.
- **Performance monitoring with AFFAIR**, CERN IT seminar, 2002.
- **Specification and simulation of the ALICE Trigger and DAQ System**, Anticic for the ALICE collaboration, Computing in High Energy Physics, Beijing, Kina, (2001).
- **Pure Leptonic Decays of Heavy Flavour Mesons**, American Physics Society meeting, Washington, SAD (1997).

## Međunarodni članci:

- **SPIRES baza:**  
Total: 119  
Citati: 5854  
h-index: 41
- **WOS baza:**  
Total: 94  
Citati: 2635  
h-index: 28
- In-air ion beam analysis with high spatial resolution proton microbeam (M. Jakšić,..., T. Anticic), Nucl.Instrum.Meth. B371 (2016) 185-188.
- Production of  $\Lambda$ -hyperons in inelastic p+p interactions at 158 GeV/c (A. Aduszkiewicz,..., T. Anticic,...T. Susa), The European Physical Journal C 76(2016)198.
- Search for the critical point of strongly interacting matter at the CERN SPS. By NA49 Collaboration (G.L. Melkumov et al.). Nucl.Phys.Proc.Suppl. 219-220 (2011) 102-110.
- $J/\psi$  Production as a Function of Charged Particle Multiplicity in pp Collisions at  $\sqrt{s} = 7$  TeV. By ALICE Collaboration (B. Abelev et al.). Phys.Lett. B712 (2012) 165-175.
- Heavy flavour decay muon production at forward rapidity in proton-proton collisions at  $\sqrt{s} = 7$  TeV. By ALICE Collaboration (Betty Abelev et al.). Phys.Lett. B708 (2012) 265-275.
- Measurement of Event Background Fluctuations for Charged Particle Jet Reconstruction in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. By ALICE Collaboration (Betty Abelev et al.). JHEP 1203 (2012) 053.
- Light vector meson production in pp collisions at  $\sqrt{s} = 7$  TeV. By ALICE Collaboration (B. Abelev et al.). Phys.Lett. B710 (2012) 557-568.
- Measurement of Production Properties of Positively Charged Kaons in Proton-Carbon Interactions at 31 GeV/c. By NA61/SHINE Collaboration (N. Abgrall et al.). Phys.Rev. C85 (2012) 035210.

- The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory. By Pierre Auger Collaboration (P. Abreu et al.). JCAP 1111 (2011) 022.
- Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory. By Pierre Auger Collaboration (P. Abreu et al.). Astropart.Phys. 35 (2012) 354-361.
- Antideuteron and deuteron production in mid-central Pb+Pb collisions at 158 GeV. By NA49 Collaboration (T. Anticic et al.). Phys.Rev. C85 (2012) 044913.
- A Search for Ultra-High Energy Neutrinos in Highly Inclined Events at the Pierre Auger Observatory. By Pierre Auger Observatory Collaboration (P. Abreu et al.). Phys.Rev. D84 (2011) 122005.
- Measurement of charm production at central rapidity in proton-proton collisions at  $\sqrt{s} = 7$  TeV. By ALICE Collaboration (B. Abelev et al.). JHEP 1201 (2012) 128.
- $J/\psi$  polarization in pp collisions at  $\sqrt{s}=7$  TeV. By ALICE Collaboration (B. Abelev et al.). Phys.Rev.Lett. 108 (2012) 082001.
- The Lateral Trigger Probability function for the ultra-high energy cosmic ray showers detected by the Pierre Auger Observatory. By Pierre Auger Collaboration (P. Abreu et al.). Astropart.Phys. 35 (2011) 266-276.
- Particle-yield modification in jet-like azimuthal di-hadron correlations in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. By ALICE Collaboration (K. Aamodt et al.). Phys.Rev.Lett. 108 (2012) 092301.
- Harmonic decomposition of two-particle angular correlations in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. By ALICE Collaboration (K. Aamodt et al.). Phys.Lett. B708 (2012) 249-264.
- Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory. By Pierre Auger Collaboration (P. Abreu et al.). JCAP 1106 (2011) 022.
- Higher harmonic anisotropic flow measurements of charged particles in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. By ALICE Collaboration (K. Aamodt et al.). Phys.Rev.Lett. 107 (2011) 032301.
- $K^{\ast}(892)^0$  and  $\bar{K}^{\ast}(892)^0$  production in central Pb+Pb, Si+Si, C+C and inelastic p+p collisions at 158 GeV. By NA49 Collaboration (T. Anticic et al.). Phys.Rev. C84 (2011) 064909.

- Rapidity and transverse momentum dependence of inclusive  $J/\psi$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 7$  TeV. By ALICE Collaboration (K. Aamodt et al.). *Phys.Lett. B* 704 (2011) 442-455.
- Proton - Lambda Correlations in Central Pb+Pb Collisions at  $\sqrt{s_{NN}} = 17.3$  GeV. By NA49 Collaboration (T. Anticic et al.). *Phys.Rev. C* 83 (2011) 054906.
- Search for First Harmonic Modulation in the Right Ascension Distribution of Cosmic Rays Detected at the Pierre Auger Observatory. By Pierre Auger Collaboration (P. Abreu et al.). *Astropart.Phys.* 34 (2011) 627-639.
- The Pierre Auger Observatory scaler mode for the study of solar activity modulation of galactic cosmic rays. By Pierre Auger Collaboration (P. Abreu et al.). *JINST* 6 (2011) P01003.
- Measurements of Cross Sections and Charged Pion Spectra in Proton-Carbon Interactions at 31 GeV/c. By NA61/SHINE Collaboration (N. Abgrall et al.). *Phys.Rev. C* 84 (2011) 034604.
- Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory. By AUGER Collaboration (P. Abreu et al.). *Nucl.Instrum.Meth. A* 635 (2011) 92-102.
- Production of pions, kaons and protons in  $p\bar{p}$  collisions at  $\sqrt{s} = 900$  GeV with ALICE at the LHC. By ALICE Collaboration (K. Aamodt et al.). *Eur.Phys.J. C* 71 (2011) 1655.
- Femtoscopy of  $p\bar{p}$  collisions at  $\sqrt{s} = 0.9$  and 7 TeV at the LHC with two-pion Bose-Einstein correlations. By ALICE Collaboration (K. Aamodt et al.). *Phys.Rev. D* 84 (2011) 112004.
- Energy dependence of kaon-to-proton ratio fluctuations in central Pb+Pb collisions from  $\sqrt{s_{NN}} = 6.3$  to 17.3 GeV. By NA49 Collaboration (T. Anticic et al.). *Phys.Rev. C* 83 (2011) 061902.
- Two-pion Bose-Einstein correlations in central Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. By ALICE Collaboration (K. Aamodt et al.). *Phys.Lett. B* 696 (2011) 328-337.
- Strange particle production in proton-proton collisions at  $\sqrt{s} = 0.9$  TeV with ALICE at the LHC. By ALICE Collaboration (K. Aamodt et al.). *Eur.Phys.J. C* 71 (2011) 1594.
- Centrality dependence of the charged-particle multiplicity density at mid-rapidity in Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. By ALICE Collaboration (K. Aamodt et al.). *Phys.Rev.Lett.* 106 (2011) 032301.

- Suppression of Charged Particle Production at Large Transverse Momentum in Central Pb-Pb Collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. By ALICE Collaboration (Kenneth Aamodt et al.). Phys.Lett. B696 (2011) 30-39.
- Elliptic flow of charged particles in Pb-Pb collisions at 2.76 TeV. By ALICE Collaboration (K Aamodt et al.). Phys.Rev.Lett. 105 (2010) 252302.
- Charged-particle multiplicity density at mid-rapidity in central Pb-Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV. By ALICE Collaboration (B Abelev et al.). Phys.Rev.Lett. 105 (2010) 252301.
- Centrality dependence of proton and antiproton spectra in Pb+Pb collisions at 40A GeV and 158A GeV measured at the CERN SPS. By NA49 Collaboration (T. Anticic et al.). Phys.Rev. C83 (2011) 014901.
- Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. By Pierre Auger Observatory Collaboration (P. Abreu et al.). Astropart.Phys. 34 (2010) 314-326.
- The exposure of the hybrid detector of the Pierre Auger Observatory. By Pierre Auger Observatory Collaboration (P. Abreu et al.). Astropart.Phys. 34 (2011) 368-381.
- Two-pion Bose-Einstein correlations in pp collisions at  $\sqrt{s}=900$  GeV. By ALICE Collaboration (K Aamodt et al.). Phys.Rev. D82 (2010) 052001.
- Transverse momentum spectra of charged particles in proton-proton collisions at  $\sqrt{s} = 900$  GeV with ALICE at the LHC. By ALICE Collaboration (K Aamodt et al.). Phys.Lett. B693 (2010) 53-68.
- Midrapidity antiproton-to-proton ratio in pp collisions at  $\sqrt{s} = 0.9$  and  $7$  TeV measured by the ALICE experiment. By ALICE Collaboration (Authors:: K. Aamodt et al.). Phys.Rev.Lett. 105 (2010) 072002.
- Commissioning and initial experience with the ALICE on-line. By ALICE Collaboration (V. Altini et al.). J.Phys.Conf.Ser. 219 (2010) 022022.
- Charged-particle multiplicity measurement in proton-proton collisions at  $\sqrt{s} = 0.9$  and  $2.36$  TeV with ALICE at LHC. By ALICE Collaboration (K. Aamodt et al.). Eur.Phys.J. C68 (2010) 89-108.
- Charged-particle multiplicity measurement in proton-proton collisions at  $\sqrt{s} = 7$  TeV with ALICE at LHC. By ALICE Collaboration (K. Aamodt et al.). Eur.Phys.J. C68 (2010) 345-354.



- Inclusive production of charged kaons in p+p collisions at 158 GeV/c beam momentum and a new evaluation of the energy dependence of kaon production up to collider energies. By NA49 Collaboration (T. Anticic et al.). Eur.Phys.J. C68 (2010) 1-73.
- Trigger and aperture of the surface detector array of the Pierre Auger Observatory. By Pierre Auger Observatory Collaboration (J. Abraham et al.). Nucl.Instrum.Meth. A613 (2010) 29-39.
- Measurement of the energy spectrum of cosmic rays above  $10^{18}$  eV using the Pierre Auger Observatory. By Pierre Auger Collaboration (J. Abraham et al.). Phys.Lett. B685 (2010) 239-246.
- Measurement of the Depth of Maximum of Extensive Air Showers above  $10^{18}$  eV. By Pierre Auger Observatory Collaboration (J. Abraham et al.). Phys.Rev.Lett. 104 (2010) 091101.
- Alignment of the ALICE Inner Tracking System with cosmic-ray tracks. By ALICE Collaboration (K Aamodt et al.). JINST 5 (2010) P03003.
- Search for the QCD critical point in nuclear collisions at the CERN SPS. By NA49 Collaboration (T. Anticic et al.). Phys.Rev. C81 (2010) 064907.
- First proton-proton collisions at the LHC as observed with the ALICE detector: Measurement of the charged particle pseudorapidity density at  $s^{1/2} = 900$ -GeV. By ALICE Collaboration (K Aamodt et al.). Eur.Phys.J. C65 (2010) 111-125.
- **System-size dependence of Lambda and Xi production in nucleus-nucleus collisions at 40A and 158A-GeV measured at the CERN Super Proton Synchrotron**, (T. Anticic,...), Phys.Rev.C80:034906 (2009).
- **Energy dependence of transverse momentum fluctuations in Pb+Pb collisions at the CERN Super Proton Synchrotron (SPS) at 20A to 158A GeV**, (T. Anticic,...), Phys.Rev.C79:044904 (2009).
- **Energy dependence of particle ratio fluctuations in central Pb + Pb collisions from  $s(NN)^{1/2} = 6.3$ -GeV to 17.3-GeV**, (Alt C, ..., T. Anticic, ...), Phys.Rev.C79:044910 (2009).
- **Energy dependence of phi meson production in central Pb+Pb collisions at  $s(NN)^{1/2} = 6$  to 17 GeV**, (Alt C, ..., T. Anticic, ...), Phys.Rev.C78:044907 (2008).
- **Energy dependence of fluctuations in central Pb+Pb collisions from NA49 at the CERN SPS**(Alt C, ..., T. Anticic, ...), J.Phys.G35:104091 (2008).

- **Energy dependence of Lambda and Xi production in central Pb+Pb collisions at A-20, A-30, A-40, A-80, and A-158 GeV measured at the CERN Super Proton Synchrotron,** (Alt C, ..., T. Anticic, ...), Phys.Rev.C78:034918 (2008).
- **The ALICE experiment at the CERN LHC,** (K. Aamodt, ..., T. Anticic, ...), JINST 3:S08002 (2008).
- **High Transverse Momentum Hadron Spectra at  $s(NN)^{1/2} = 17.3$ -GeV, in Pb+Pb and p+p Collisions, Measured by CERN-NA49,** (Alt C, ..., T. Anticic, ...), Phys.Rev.C77:034906 (2008).
- **Energy Dependence of Multiplicity Fluctuations in Heavy Ion Collisions at the CERN SPS,** (Alt C, ..., T. Anticic, ...), Phys.Rev.C78:034914 (2008).
- **High Transverse Momentum Hadron Spectra at  $s(NN)^{1/2} = 17.3$ -GeV, in Pb+Pb and p+p Collisions, Measured by CERN-NA49,** (Alt C, ..., T. Anticic, ...), Phys.Rev.C77:034906 (2008).
- **Pion and kaon production in central Pb + Pb collisions at 20-A and 30-A-GeV: Evidence for the onset of deconfinement,**(Alt C, ..., T. Anticic, ...), Phys.Rev.C77:024903 (2008).
- **Rapidity and energy dependence of the electric charge correlations in A + A collisions at the SPS energies,** (Alt C, ..., T. Anticic, ...), Phys.Rev.C76:024914(2007).
- **Centrality and system size dependence of multiplicity fluctuations in nuclear collisions at 158-A/GeV,** (Alt C, ..., T. Anticic, ...), Phys.Rev.C75:064904 (2007).
- **High pT Spectra of Identified Particles Produced in Pb+Pb Collisions at 158 GeV/nucleon Beam Energy ,** (Alt C, ..., T. Anticic, ...), Nuclear Physics A. 774 (2006) 473-476.
- **Results from NA49,** (Alt C, ..., T. Anticic, ...), Nuclear Physics A. 774 (2006).
- **Elliptic flow of Lambda hyperons in Pb+Pb collisions at 158 AGeV,** (Alt C, ..., T. Anticic, ...), Nuclear Physics A. 774 (2006).
- **Strangeness from 20AGeV to 158AGeV,** (Alt C, ..., T. Anticic, ...), Journal of Physics G: Nuclear and Particle Physics. 30 (2004).
- **Onset of deconfinement in Pb+Pb collisions at the CERN SPS,** (Seyboth P, Alt C, ..., T. Anticic, ...) Acta Physica Polonica B 37 (2006).
- **Inclusive production of charged pions in p+p collisions at 158 GeV/c beam momentum** (Alt C, ..., T. Anticic, ...), European Physical Journal C45(2006).

- **Energy and centrality dependence of  $\bar{p}$  and  $p$  production and the  $\bar{\Lambda}/\bar{p}$  ratio in Pb plus Pb collisions between 20A GeV and 158A GeV**, (Alt C, ..., T. Anticic, ...), Physical Review C 73 (2006).
- **Upper limit of D-0 production in central Pb-Pb collisions at 158A GeV**, (Alt C, ..., T. Anticic, ...), Physical Review C 73(2006).
- **$\Omega^-$  and  $\bar{\Omega}^+$  production in central Pb+Pb collisions at 40 and 158A GeV**, (Alt C, ..., T. Anticic, ...), Physical Review Letters 94 (2005).
- **System size and centrality dependence of the balance function in A+A collisions at root S-NN=17.2 GeV**, (Alt C, ..., T. Anticic, ...), Physical Review C 71(2005).
- **System-size dependence of strangeness production in nucleus-nucleus collisions at root S-NN=17.3 GeV**, (Alt C, ..., T. Anticic, ...), Physical Review Letters 94(2005).
- **Electric charge fluctuations in central Pb+Pb collisions at 20A, 30A, 40A, 80A, and 158A GeV**, (Alt C, ..., T. Anticic, ...), Physical Review C 70 (2004).
- **ALICE: Physics performance report, volume I**, (Cortese P, Dellacasa G, Ramello L, ..., T. Anticic, ...), Journal of Physics G-Nuclear and Particle Physics 30 (2004).
- **Transverse momentum fluctuations in nuclear collisions at 158A GeV**, ( T. Anticic,...), Physical Review C70 (2004).
- **$\Lambda$  and  $\bar{\Lambda}$  production in central Pb-Pb collisions at 40, 80, and 158A GeV**, (Alt C, ..., T. Anticic, ...), Physical Review Letters 93 (2004).
- **Energy and centrality dependence of deuteron and proton production in Pb+Pb collisions at relativistic energies**, (Alt C, ..., T. Anticic, ...), Physical Review C 69 (2004).
- **Evidence for an exotic  $S=-2$ ,  $Q=-2$  baryon resonance in proton-proton collisions at the CERN SPS**, (Alt C, ..., T. Anticic, ...), Physical Review Letters 92 (2004).
- **Directed and elliptic flow of charged pions and protons in Pb plus Pb collisions at 40A and 158A GeV**, (Alt C, ..., T. Anticic, ...), Physical Review C68 (2003).
- **Bose-Einstein correlations of charged Kaons in central Pb+Pb collisions at 158 GeV/c per nucleon**, (S. V. Afanasiev, ..., T. Anticic, ...), Phys. Lett. B557 157-163(2003).
- **Energy dependence of  $\Lambda$  and anti- $\Lambda$  production at CERN SPS energies**, (S. V. Afanasiev, ..., T. Anticic, ...), Nucl. Phys. A715 453-457(2002).

- **System size dependence of strangeness production at 158-A-GeV**, (S. V. Afanasiev, ..., T. Anticic, ...), Nucl.Phys.A715 474-477 (2003).
- **Recent results on spectra and yields from NA49**, (S. V. Afanasiev, ..., T. Anticic, ...), Nucl.Phys.A715 (2003).
- **Results on correlations and fluctuations from NA49**, (S. V. Afanasiev, ..., T. Anticic, ...), Nucl.Phys.A715 (2003).
- **Search for deconfinement in NA49 at the CERN SPS**, (S. V. Afanasiev, ..., T. Anticic, ...), Heavy Ion Phys.15(2002).
- **Energy dependence of pion and kaon production in central Pb-Pb collisions**, (S. V. Afanasiev, ..., T. Anticic, ...), Phys. Rev. C66 (2002).
- **Cascade and anti-cascade production in central Pb+Pb collisions at 158 GeV/c per nucleon**, (S. V. Afanasiev, ..., T. Anticic, ...), Phys. Lett. B538(2002).
- **Lambda production in central Pb+Pb collisions at CERN SPS energies**, (S. V. Afanasiev, ..., T. Anticic, ...), J. Phys. G28 (2002).
- **New results from NA49**, (S. V. Afanasiev, ..., T. Anticic, ...), Nucl. Phys. A698(2002).
- **Production of multi-strange hyperons and strange resonances in the NA49 experiment**, (S. V. Afanasiev, ..., T. Anticic, ...) J. Phys. G27 (2001).
- **Event-by-event fluctuations of the kaon to pion ratio in central Pb-Pb collisions at 158-GeV per nucleon**, (S. V. Afanasiev, ..., T. Anticic, ...), Phys. Rev. Lett. 86 (2001).
- **Production of phi mesons in p+p, p+Pb, and central Pb+Pb collisions at E(beam) = 158-A-GeV**, (S. V. Afanasiev, ..., T. Anticic, ...), Phys. Lett. B491 (2000).
- **Deuteron production in central Pb+Pb collisions at 158-A-GeV**, (S. V. Afanasiev, ..., T. Anticic, ...), Phys. Lett. B486 (2000).
- **Energy straggling and multiple scattering in silicon strip detectors**, (Anticic et al.), Nucl. Instr. Meth. A374(1996).
- **A study of spatial resolution for a preshower detector with aluminum absorber and silicon strip sampler**, (Chang, ..., Anticic, ...) Nucl. Instr. Meth. A374(1996).
- **Beam test results on Si and GaAs microstrip detectors with length up to 64 cm**, (Anticic et al.), Nucl. Instr. Meth. A366(1995).
- **Spatial resolution of wedge shaped silicon microstrip detectors**, (Anticic et al.), Nucl. Instr. Meth. A365(1995).

## Drugi članci:(14)

- **Challenging the challenge: handling data in Gigabit/s range**, Antičić, Tome; Carena, F.; Carena, W.; Divia, R.; Favretto, D.; Marin, J.C.; Mohanty, A.K.; Polichtchouk, B.; Rademakers, F.; Schossmailer, K.; Vande Vyvre, P.; Vascotto A.(for the ALICE collaboration), Proceedings of 2003 Conference for Computing in High-Energy and Nuclear Physics (2003).
- **Trigger and DAQ Simulation**, (T. Anticic et al), ALICE internal note ALICE-INT-2003-001-V1
- **ALICE p-p and Pb-Pb DAQ event acceptance** (T. Anticic), ALICE physics performance review
- **ALICE DATE V4 User's Guide**, (T. Anticic et al), ALICE internal note, ALICE-INT-2002-038-V2
- **AFFAIR:a distributed fabric monitoring system** (T. Anticic et al), accepted as an ALICE internal note, November 2002.
- **Strange hyperon production in p+p, p+Pb interactions from NA49**, (T. Anticic, S. Horvat, K. Kadija, T. Susa, Fizika B10(2001).269-278. ( 0 citata)
- **ALICE DAQ and Trigger simulation**, (T. Anticic et al), accepted as an ALICE internal note, October 2002.
- **ALICE:Addendum to the technical design report of the time of flight system (TOF)**, (P. Cortese,..., T. Anticic,...), CERN-LHCC-2002-016, Apr 2002, 156 pp.
- **Progress report and beam request for 2002**, (S. V. Afanasiev, ..., T. Anticic, ...), CERN-SPSC-2002-008, Mar 2002, 43 pp.
- **Specification and simulation of the ALICE DAQ**, Anticic et al, Computing in High Energy Physics, CHEP (2001) 475.
- **Pure Leptonic Decays of Heavy Flavour Mesons**, Anticic, Kunin, Pahlov, L3 Note 1988 (1996).
- **Event-by event fluctuations in Pb-Pb collisions at the CERN SPS**, (S. V. Afanasiev, ..., T. Anticic, ...), Providence 1999, QCD and multiparticle production (2001) 413.
- **Purely leptonic decays of heavy flavour mesons**, Anticic, Doktorat, CERN-THESIS-98-009 (1997).
- **A portable data acquisition and beam reference system used in detector testing**, Anticic, C.-Y. Chien, Johns Hopkins Preprint JHU-HEP-94-0805 (1994).