

UNIVERSITY OF NOVA GORICA
Vipavska 13, SI-5000 Nova Gorica

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Prof. dr. Danilo ZAVRTANIK

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26. **Search for $K_s \rightarrow \pi^+\pi^-$ Decay from Period 4 and Period 5 CLEAR Data**
A. Filipčič and D. Zavrtanik
 CERN CP/SW/026, IJS DP-5807 (1990).
27. **Tests of CP violation with K^0 and \bar{K}^0**
CLEAR COLLABORATION: R. Adler et al., (92 co-authors)
 Proposal for a Φ - Factory, Laboratori Nazionali di Frascati - INFN, LNF-90/031(R) (1990).
28. **CLEAR Geometry and Calibration Reference Manual**
D. Zavrtanik
 CERN CP/SW/029 EP/PS195/DZ/90-018, IJS DP-5864 (1990).
29. **Multipurpose X-ray Beamline at ELETTRA: The Scientific Case and Conceptual Design**
D. Abramič et al., (84 co-authors)
 IJS DP-7083 (1994).
30. **The Pierre Auger Observatory Design Report**
P. AUGER COLLABORATION: A. Etchegoyen et al., (292 co-authors)
 Fermilab, Chicago, Illinois, USA, November 1996.

- 31. Development of a high-speed low-noise preamplifier for the detection of single electrons in Čerenkov ring imaging detectors**
M. Zavrtanik, M. Starič and D. Zavrtanik
IJS DP-7277 (1996).
- 32. Thinning of high-energy airshowers**
M. Kobal, A. Filipčič and D. Zavrtanik
GAP-98-001, (1998) P. Auger Observatory, Malargue, Mendoza, Argentina.
- 33. Optimisation of high-energy air-shower thinning**
M. Kobal, A. Filipčič and D. Zavrtanik
GAP-98-058, (1998) P. Auger Observatory, Malargue, Mendoza, Argentina.
- 34. Osnutek projekta PRIMORSKI TEHNOLOŠKI PARK**
B. Lavrič, R. Uršič in D. Zavrtanik
PNG-DP-007 (1999).
- 35. Sample Algorithms for Air-showers Simulations**
A. Filipčič, M. Kobal and D. Zavrtanik
GAP-2000-028, (2000) P. Auger Observatory, Malargue, Mendoza, Argentina.
- 36. Analysis of Lidar Measurements at the Pierre Auger Observatory**
A. Filipčič, M. Horvat, D. Veberič, D. Zavrtanik and M. Zavrtanik
GAP-2003-002, (2003) P. Auger Observatory, Malargue, Mendoza, Argentina.
- 37. Studies of variability in the Auger scaler rate**
A. Saleh, S. Vorobiov, D. Zavrtanik and S. Stanič
GAP-2015-080, (2015) P. Auger Observatory, Malargue, Mendoza, Argentina.
- 38. The Pierre Auger Observatory Upgrade "AugerPrime", Preliminary Design Report**
P. AUGER COLLABORATION: A. Aab et al., (348 co-authors)
P. Auger Observatory, Malargue, Mendoza, Argentina, (April 2015).

INVITED LECTURES

1. **Experimental study of $\pi^- p \rightarrow \pi^-\pi^+ n$ reaction near threshold**
D. Zavrtanik
Seminar, Shanghai Institute of Nuclear Research, Academia Sinica, Shanghai, People's Republic of China, June 29, 1987.
2. **First results of the measurement of the reaction $\pi^- p \rightarrow \pi^-\pi^+ n$ near threshold**
D. Zavrtanik
Seminar, Institute of High Energy Physics, Academia Sinica, Beijing, People's Republic of China, July 1, 1987.
3. **Kaj je fizika osnovnih delcev?**
D. Zavrtanik
Lecture, Srednja naravoslovna šola, Ljubljana, Yugoslavia, 24. februar, 1988.
4. **Meritev reakcije $\pi^- p \rightarrow \pi^-\pi^+ n$ v bližini praga**
D. Zavrtanik
Lecture, Selected topics for graduate students, University of Ljubljana, FNT, Department of Physics, Ljubljana, Yugoslavia, April 13, 1988.
5. **Status of the CPLEAR Experiment and First Results**
D. Zavrtanik
Seminar, University of Toronto, Toronto, Canada, Physics Department, High Energy Seminar Series 1990 - 1991, October 10, 1990.
6. **Meritev razlike časovnega poteka razpada za nevtralni kaon in njegov antidelec**
D. Zavrtanik
Lecture, Selected topics for graduate students, University of Ljubljana, FNT, Department of Physics, Ljubljana, Slovenia, Januar 14, 1992.
7. **Študij simetrij CP, T in CPT v sistemu nevtralnih kaonov s spektrometrom CPLEAR**
D. Zavrtanik
Lecture, Selected topics for graduate students, University of Ljubljana, FNT, Department of Physics, Ljubljana, Slovenia, December 16, 1997.
8. **Experimental Tests of CP, T and CPT Symmetries with CPLEAR Experiment**
D. Zavrtanik
Seminar, University of Campinas, Campinas, Brazil, May 25, 1998.
9. **Experimental Test of CP, T and CPT Symmetries using K^0 and \bar{K}^0**
D. Zavrtanik
Colloquium, Centro Brasileiro de Pesquisas Fisicas CBPF-LAFEX, Rio de Janeiro, Brazil, Coloquio CBPF 1998, May 28, 1998.
10. **Recent CPLEAR Results on Experimental Tests of CP, T and CPT Symmetries in the Neutral Kaon System**
D. Zavrtanik
Lecture, University of Chicago, Chicago, Illinois, ZDA, Enrico Fermi Institute, High Energy Lunch Series, June 22, 1998.
11. **The Arrow of Time: First Direct Measurement of Time-Reversal Non-Invariance in the Neutral-Kaon System**
D. Zavrtanik
Lecture, Universidad Michoacana de San Nicolas de Hidalgo, Morelia, Michoacan, Mexico, El Instituto de Fisica y Matematicas, January 18, 1999.

- 12. Smer časa**
D. Zavrtanik
 Lectures on Thursday, Politehnika Nova Gorica, Slovenia, Marec 4, 1999.
- 13. The First Direct Measurement of T Violation at CERN**
D. Zavrtanik
 Lecture, INFN Torino and Universita di Torino, Department of Physics, Italia, June 1, 1999.
- 14. The Arrow of Time**
D. Zavrtanik
 Lecture, Cornell University, National Astronomy and Ionosphere Center, Arecibo Observatory, Arecibo, Puerto Rico, USA, May 5, 2000.
- 15. Ultra High Energy Cosmic Rays – Experimental Status**
D. Zavrtanik
 Invited talk, 17th European Cosmic Ray Symposium, Lodz, Poland, July 24 - 28, 2000.
- 16. Experimental Tests of T and CPT Violation**
D. Zavrtanik
 Seminar, Université Pierre et Marie Curie, LPNHE, Paris, France, September 9, 2000.
- 17. Kozmični žarki ekstremnih energij**
D. Zavrtanik
 Public lecture, ŠKUC, Ljubljana, Slovenia, April 9, 2001.
- 18. P. Auger Observatory: Physics of Extremely High Energy Cosmic Rays**
D. Zavrtanik
 ICTP – SISSA Joint seminar, High Energy Physics Series, ICTP, Trieste, Italy, May 8, 2001.
- 19. Kozmični žarki ekstremnih energij**
D. Zavrtanik
 Lecture, Srednja šola “Veno Pilon”, Ajdovščina, Slovenia, November 8, 2001.
- 20. The Arrow of Time: First direct Observation of Time-Reversal Non-Invariance**
D. Zavrtanik
 College of Sciences Colloquium, University of Nevada Las Vegas, Las Vegas, Nevada, USA, October 7, 2002.
- 21. Time-Reversal Non-Invariance in the Neutral Kaon System**
D. Zavrtanik
 Seminar, KEK, Tsukuba, Japan, KEK – Physics Seminar, July 29, 2003.
- 22. Skrivnosti kozmičnih žarkov ekstremnih energij**
D. Zavrtanik
 Colloquium at IJS, J. Stefan Institute, Ljubljana, Slovenia, May 5, 2004.
- 23. Cosmic rays at extreme energies and the P. Auger observatory**
D. Zavrtanik
 Predavanje, Department of Physics, Faculty of natural sciences and mathematics, University of Montenegro, Serbia and Montenegro, May 26, 2004.
- 24. Cosmic Rays at Extreme Energies and the P. Auger Observatory**
D. Zavrtanik
 Invited talk, Four Seas Conference (4th Session), Istanbul, Turkey, September 5 - 10, 2004.
- 25. Status of the Pierre Auger Observatory**
D. Zavrtanik
 Invited talk, Meeting of the Korean Physical Society, Jeju, Korea, October 22, 2004.

26. Physics and Status of the P. Auger Observatory

D. Zavrtanik

Invited talk, Future of the High Energy Cosmic Ray Physics with International Arrays, Center for Space Science and Technology, EWHA Womans University, Seoul, Korea, October 25, 2004.

27. Cosmic Rays at Extreme Energies and the P. Auger Observatory

D. Zavrtanik

Lecture, Asian Pacific Centre for Theoretical Physics APCTP, Seoul, Korea, October 26, 2004.

28. Do kje segajo energije kozmičnih žarkov?

D. Zavrtanik

Lecture, University of Primorska, Faculty of Education, Koper, Slovenia, March 25, 2005.

29. Kozmični žarki ekstremnih energij

D. Zavrtanik

Lecture, Monday Colloquium, University of Ljubljana, Faculty of Mathematics and Physics, Ljubljana, Slovenia, May 30, 2005.

30. Zakaj Slovenija (še) nima privatne univerze

D. Zavrtanik

Lecture, Slovenian World Congress, 4. konferenca slovenskih znanstvenikov in gospodarstvenikov iz sveta in Slovenije, Brdo pri Kranju, Slovenia, September 9, 2005.

31. Ali slovenska znanost lahko sodeluje v velikih mednarodnih projektih?

D. Zavrtanik

Lecture, Slovenian World Congress, 4. konferenca slovenskih znanstvenikov in gospodarstvenikov iz sveta in Slovenije, Brdo pri Kranju, Slovenia, September 9, 2005.

32. Ali so izvori kozmičnih žarkov ekstremnih energij odkriti

D. Zavrtanik

Lecture, Monday Colloquium, University of Ljubljana, Faculty of Mathematics and Physics, Ljubljana, Slovenia, February 11, 2008.

33. Recent results from the P. Auger Observatory

D. Zavrtanik

Seminar, High Energy Physics Series, ICTP, Trieste, Italy, March 18, 2008.

34. What do we know about sources of ultra high energy cosmic rays

D. Zavrtanik

Public evening lecture, 7th International Summer School, Let's face chaos through nonlinear dynamics, Maribor, Slovenia, July 7, 2008.

35. Experimental study of cosmic rays at extreme energies

D. Zavrtanik

Lecture, Institute Ruđer Bošković, Zagreb, Croatia, September 11, 2008.

36. Measurements of Cosmic Rays with Primary Energies up to 10^{20} eV, Recent Results from the Pierre Auger Observatory

D. Zavrtanik

Lecture, Institut fur Hochenergiephysik, Vienna, Austria, May 25, 2010.

37. University of Nova Gorica

D. Zavrtanik

Lecture, Slovenski Znanstveni Inštitut, Vienna, Austria, May 25, 2010.

38. Meritve kozmičnih žarkov ekstremnih energij

D. Zavrtanik

Invited lecture, Meeting of mathematical, physical and astronomy society of Slovenia, Rimske toplice, Slovenia, October 20, 2012.

- 39. Strategies for Internationalization of Research Universities: A Case of the University of Nova Gorica in Slovenia**

D. Zavrtanik

Invited lecture, Saitama University, Tokyo, Japan, October 23, 2013.

- 40. Experimental study of Ultra High Energy Cosmic Rays**

D. Zavrtanik

Invited lecture, Saitama University, Tokyo, Japan, October 24, 2013.

- 41. My research highligths**

D. Zavrtanik

Lecture, Monday's physics colloquium, University of Ljubljana, Faculty for mathematics and physics, Ljubljana, Slovenia, march 8th, 2021.

SUPERVISION

DIPLOMA WORKS

1. **D. Žontar:** Študij primernosti spektrometra CPLEAR za meritev redkega razpada $K_S \rightarrow e^+e^-$
University of Ljubljana, Faculty for Natural Sciences and Technology.
Finished: 3.6.1992.
2. **S. Stanič:** Meritev inkluzivnega spektra K_S^0 pri razpadih resonance Z^0 s spektrometrom DELPHI
University of Ljubljana, Faculty for Natural Sciences and Technology.
Finished: 3.6.1993.
3. **B. Eržen:** Meritev hadronskih razpadov B mezonov s spektrometrom DELPHI
University of Ljubljana, Faculty for Natural Sciences and Technology.
Finished: 17.12.1993.
4. **M. Kobal:** Razvoj pljuska delcev pri interakciji kozmičnih žarkov z energijami nad 10^{19} eV v atmosferi
University of Ljubljana, Faculty of mathematics and physics.
Finished: 23.4.1997.
5. **M. Horvat:** Merjenje optične prepustnosti atmosfere s sistemom LIDAR
University of Ljubljana, Faculty of mathematics and physics.
Finished: 12.9.2001.
6. **G. Kukec Mezek:** Ali je naša galaksija spektrometer za kozmične žarke ekstremnih energij?
University of Nova Gorica, School of applied sciences.
Finished: 9.9.2011

MSc WORKS

1. **U. Seljak:** Tvorba resonanc pri procesu $\bar{p}p \rightarrow K^+K^-\pi^+\pi^-$
University of Ljubljana, Faculty of mathematics and physics.
Finished: 20.6.1991
2. **A. Filipčič:** Analiza reakcije $\bar{p}p \rightarrow K^\pm\pi^\mp K_S$ pri eksperimentu CPLEAR
University of Ljubljana, Faculty of mathematics and physics.
Finished: 8.1.1992.
3. **M. Zavrtanik:** Elektronski čitalni sistem za prednji detektor Čerenkovih obročev pri spektrometru DELPHI
University of Ljubljana, Faculty of mathematics and physics.
Finished: 6.5.1994.
4. **D. Žontar:** Razvoj pozicijsko občutljivih silicijevih detektorjev za spektrometer DELPHI
University of Ljubljana, Faculty of mathematics and physics.
Finished: 3.10.1995.
5. **S. Stanič:** Meritve razpadne širine resonance Z^0 v kvarke $\bar{b}b$ z metodo nevronskih mrež
University of Ljubljana, Faculty of mathematics and physics.
Finished: 22.11.1996.
6. **M. Čolović:** Lidar sensing of aerosols and determination of their trajectories
University of Nova Gorica, Graduate School.
Finished: March 2007.

7. **G. Kukec Mezek: Simulation of micro black hole evaporation and interaction in the Earth's atmosphere**
University of Nova Gorica, School of applied sciences.
Finished: 5.9.2014.

PhD WORKS

1. **A. Filipčič: Measurement of CP violation parameters in decays of neutral kaons into $\pi^+\pi^-\pi^0$**
University of Ljubljana, Faculty of mathematics and physics.
Finished 25.5.1995.
2. **B. Golob: A study of the decays of B_s mesons produced at the Z^0 resonance at LEP**
University of Ljubljana, Faculty of mathematics and physics.
Finished: 21.10.1996.
3. **I. Mandić: Measurement of neutral kaon decays with electrons in the final state**
University of Ljubljana, Faculty of mathematics and physics.
Finished: 15.11.1997.
4. **S. Stanič: Search for the charged Higgs bosons at the LEP 2 collider**
University of Ljubljana, Faculty of mathematics and physics.
Finished: 24.5.1999.
5. **B. Eržen: Measurement of the $|V_{cs}|$ with DELPHI spectrometer**
University of Ljubljana, Faculty of mathematics and physics.
Finished: 5.10.1999.
6. **M. Logar: Analiza kritičnosti bazena za iztrošeno gorivo reaktorja TRIGA**
University of Maribor, Faculty for Civil Engineering.
Finished: 8.11.2000.
7. **M. Horvat: Arrival Direction Measurements of Ultra High Energy Cosmic Rays**
University of Ljubljana, Faculty of mathematics and physics.
Finished: 18.5.2006.
8. **M. Hussain: Ultra High-Energy Cosmic Rays and Galactic Magnetic Field**
University of Nova Gorica, Graduate School.
Finished: 14.1.2010.
9. **A. Mohamed Khalil Hassanin Saleh: Studies of astrophysical very-high energy gamma-ray emission with the Pierre Auger Observatory**
University of Nova Gorica, Graduate School.
Finished: 9.2.2017.
10. **M. Trini: Search for neutrinos at extreme energies with the Pierre Auger Observatory**
University of Nova Gorica, Graduate School.
Finished: 30.9.2019.