

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

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**Prof. dr. Danilo ZAVRTANIK**

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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. Zavrtnik*  
Invited talk, 17<sup>th</sup> European Cosmic Ray Symposium, Lodz, Poland, July 24 - 28, 2000.
16. **Experimental Tests of T and CPT Violation**  
*D. Zavrtnik*  
Seminar, Université Pierre et Marie Curie, LPNHE, Paris, France, September 9, 2000.
17. **Kozmični žarki ekstremnih energij**  
*D. Zavrtnik*  
Public lecture, ŠKUC, Ljubljana, Slovenia, April 9, 2001.
18. **P. Auger Observatory: Physics of Extremely High Energy Cosmic Rays**  
*D. Zavrtnik*  
ICTP – SISSA Joint seminar, High Energy Physics Series, ICTP, Trieste, Italy, May 8, 2001.
19. **Kozmični žarki ekstremnih energij**  
*D. Zavrtnik*  
Lecture, Srednja šola “Veno Pilon”, Ajdovščina, Slovenia, November 8, 2001.
20. **The Arrow of Time: First direct Observation of Time-Reversal Non-Invariance**  
*D. Zavrtnik*  
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. Zavrtnik*  
Seminar, KEK, Tsukuba, Japan, KEK – Physics Seminar, July 29, 2003.
22. **Skrivnosti kozmičnih žarkov ekstremnih energij**  
*D. Zavrtnik*  
Colloquium at IJS, J. Stefan Institute, Ljubljana, Slovenia, May 5, 2004.
23. **Cosmic rays at extreme energies and the P. Auger observatory**  
*D. Zavrtnik*  
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. Zavrtnik*  
Invited talk, Four Seas Conference (4<sup>th</sup> Session), Istanbul, Turkey, September 5 - 10, 2004.
25. **Status of the Pierre Auger Observatory**  
*D. Zavrtnik*  
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 Coloquium, 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, 7<sup>th</sup> 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 matematical, 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. Zavrtnik*  
Invited lecture, Saitama University, Tokyo, Japan, October 23, 2013.
- 40. Experimental study of Ultra High Energy Cosmic Rays**  
*D. Zavrtnik*  
Invited lecture, Saitama University, Tokyo, Japan, October 24, 2013.
- 41. My research highlights**  
*D. Zavrtnik*  
Lecture, Monday's physics colloquium, University of Ljubljani, Faculty for mathematics and physics, Ljubljana, Slovenia, march 8<sup>th</sup>, 2021.
- 42. Danilo Zavrtnik: Kratka znanstvena avtobiografija**  
*D. Zavrtnik*  
Vabljeno predavanje, Stefanovi dnevi, Institut Jožef Stefan, Ljubljana, Slovenija, 19. marec, 2024.

# 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. Kuček 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.