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- 1. Experimental study of $\pi^- p \rightarrow \pi^- \pi^+ n$ reaction near threshold**
D. Zavrtnik
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- 2. First results of the measurement of the reaction $\pi^- p \rightarrow \pi^- \pi^+ n$ near threshold**
D. Zavrtnik
Seminar, Institute of High Energy Physics, Academia Sinica, Beijing, People's Republic of China, July 1, 1987.
- 3. Kaj je fizika osnovnih delcev?**
D. Zavrtnik
Lecture, Srednja naravoslovna šola, Ljubljana, Yugoslavia, 24. februar, 1988.
- 4. Meritev reakcije $\pi^- p \rightarrow \pi^- \pi^+ n$ v bližini praga**
D. Zavrtnik
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. Zavrtnik
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**
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- 8. Experimental Tests of CP, T and CPT Symmetries with CPLEAR Experiment**
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- 9. Experimental Test of CP, T and CPT Symmetries using K^0 and \bar{K}^0**
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- 11. The Arrow of Time: First Direct Measurement of Time-Reversal Non-Invariance in the Neutral-Kaon System**
D. Zavrtnik
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 Università 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 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, 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.

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.

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.
4. **M. Čolovič: Lidar sensing of aerosols and determination of their trajectories**
University of Nova Gorica, Graduate School.
Finished: March 2007.

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.
 5. **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.
 6. **B. Eržen: Measurement of the $|V_{cs}|$ with DELPHI spectrometer**
University of Ljubljana, Faculty of mathematics and physics.
Finished: 5.10.1999.
 7. **M. Logar: Analiza kritičnosti bazena za iztrošeno gorivo reaktorja TRIGA**
University of Maribor, Faculty for Civil Engineering.
Finished: 8.11.2000.
 8. **M. Horvat: Arrival Direction Measurements of Ultra High Energy Cosmic Rays**
University of Ljubljana, Faculty of mathematics and physics.
Finished: 18.5.2006.
 9. **M. Hussain: Ultra High-Energy Cosmic Rays and Galactic Magnetic Field**
University of Nova Gorica, Graduate School.
Finished: 14.1.2010.