

Second announcement

BW2003 WORKSHOP

Mathematical, Theoretical and Phenomenological Challenges Beyond Standard Model: PERSPECTIVES OF BALKANS COLLABORATION

29 August - 02 September, 2003
VRNJACKA BANJA, SERBIA

ORGANIZERS

Department of Physics, University of Nis

Max Planck Institute for Physics Munich

Institute of Physics, Humboldt University at Berlin

Section of Serbian Physical Society, Nis

General Information

The Workshop will be held in Vrnjicka Banja right after the [Fifth General Conference of the Balkan Physical Union](#).

GOALS

The purpose of the workshop is to foster the communication among the researchers in the Balkans region and also between them and their colleagues elsewhere in the world.

Topics

Strings and superstrings
Supersymmetry and conformal field theory
Noncommutative, gauge and string field theories
D-branes and matrix models
Cosmology, quantum gravity, extra dimensions
Particle physics: theory and (LHC) phenomenology
Noncommutative, q-deformed and nonarchimedean models

CONTACT ADDRESS

Balkan Workshop 2003
Department of Physics, University of Nis
Visegradska 33
P.O. Box 224
18001 Nis, Serbia
Phone/Fax +381 18 533-014
E-mail: bw2003@pmf.ni.ac.yu

Advisory Committee

A. Albrecht (Davis)
G. Altarelli (CERN)
I. Antoniadis (CERN)
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Programme

Friday, 29. August

13.00-14.00	Lunch
14.00-17.30	Registration
17.30-18.00	OPENNING CEREMONY
18.00-18.30	Reception
18.30-19.15	<i>G. Lazarides: Yukawa quasi-unification and inflation</i>
19.15-20.00	<i>A. Mikovic: Spin Foam in Quantum Gravity</i>
20.00-21.00	Dinner

Saturday, 30. August

07.00-09.00	Breakfast
09.00-09.45	<i>A. Morozov: String theory and matrix models</i>
09.45-10.30	<i>S. Solodukhin: Relaxation in CFT and black holes</i>
10.30-11.00	Pause
11.00-11.45	<i>N. Kaloper: Quantum black holes as holograms</i>
11.45-12.30	<i>E. Kiritsis: String theory physics in gravitational wave backgrounds, *</i>
12.30-13.00	Discussion
13.00-14.00	Lunch
16.00-16.45	<i>I. Kostov: Boundary Liouville Theory and 2D Quantum Gravity</i>
16.45-17.15	<i>P. Fiziev: Inflation and Oscillations of Universe in 4D Dilatonic Gravity.</i>
17.15-17.45	<i>A. Nicolaidis: Manifestations of TeV Gravity</i>
17.45-18.00	Discussion
18.00-18.30	Pause
18.30-20.00	ROUND TABLE
20.00-21.00	Dinner

Sunday, 31. August

07.00-09.00	Breakfast
09.00-09.45	<i>K. Behrndt: Superpotentials from flux compactifications</i>
09.45-10.30	<i>G. Arutyunov: Spinning strings in $AdS_5 \times S^5$</i>
10.30-11.00	Pause
11.00-11.30	<i>H. Steinacker: Noncommutative D-branes on Group Manifolds</i>
11.30-12.00	<i>M. Zamaklar: Branes in $AdS \times S$ spaces and their Penrose limits</i>
12.00-12.30	<i>M. Visinescu: Symmetries of the Dirac-type operators in curved space</i>
12.30-13.00	Discussion
13.00-14.00	Lunch
14.00-19.30	EXCURSION
20.00	CONFERENCE DINNER

Monday, 01. September

07.00-09.00	Breakfast
09.00-09.45	<i>R. Rattazzi: TBA</i>
09.45-10.30	<i>G. Senjanovic: Neutrino mass and supersymmetric unification</i>
10.30-11.00	Pause
11.00-11.45	<i>S. Minwalla: TBA</i>
11.45-12.15	<i>B. Bajc: Proton decay and fermion masses in GUTs</i>
12.15-12.45	<i>A. Melfo: Left-right symmetry in SUSY GUT's</i>

12.45-13.00	Discussion
13.00-14.00	Lunch
16.00-16.45	<i>V. Schomerus: Strings and branes in non-compact backgrounds</i>
16.45-17.30	<i>B. Sazdovic: Riemann-Cartan space-time in "stringy geometry"</i>
17.30-18.00	Pause
18.00-18.30	<i>P. Aschieri: Non-commutative Grand Unified models and C, P, T</i>
18.30-19.00	<i>C. Sochichiu: On the dynamics of BMN operators at finite N</i>
19.00-19.30	<i>M. Buric: Renormalizability of θ-expanded noncommutative SU(2) gauge theory</i>
19.30-20.00	Discussion
20.00-21.00	Dinner

Thursday, 02. September

07.00-09.00	Breakfast
09.00-09.45	<i>B. A. Zamolodchikov: TBA</i>
09.45-10.30	<i>M. Chaichian: Some Aspects of Noncommutative Quantum field & Gauge Theories</i>
10.30-11.00	Pause
11.00-11.30	<i>G. L. Cardoso: Heterotic string compactifications with fluxes</i>
11.30-12.00	<i>A. Yu. Orlov: Tau Functions, Random partitions and Random Matrices</i>
12.00-12.30	<i>V. Dragovic: Isoholomorphic and restrictiv integrability</i>
12.30-13.00	Discussion
13.00-14.00	Lunch
16.00-16.30	<i>D. Djordjevic: Perturbation of spectra of operator matrices</i>
16.30-17.00	<i>S. Terzic: The rational topology of gauge groups and of spaces of connections</i>
17.00-17.30	<i>T. Popov: Cubic quantum algebras</i>
17.30-18.00	<i>G. Djordjevic: Real and p-adic aspects of quantization of tachyons</i>
18.00-18.30	Pause
18.30-19.00	<i>D. R. Grigore: Supersymmetric Quantum Field Theories</i>
19.00-19.45	<i>J. Wess: Physics at very short distances and noncommutative coordinates</i>
19.45-20.00	CLOSING
20.00-21.00	Dinner

Wednesday, 03. September

07.00-09.00	Breakfast
09.00-	Departure

Participants

1. [Adzic Peter](mailto:Peter.Adzic@cern.ch)* (Peter.Adzic@cern.ch, Belgrade, SCG)
2. [Aneva Boyka](mailto:Boyka.Aneva@cern.ch) (Boyka.Aneva@cern.ch, Sofia, Bulgaria)
3. [Arutyunov Gleb](mailto:agleb@aei-potsdam.mpg) (agleb@aei-potsdam.mpg, Golm, Germany)
4. [Aschieri Paolo](mailto:aschieri@theorie.physik.uni-muenchen.de) (aschieri@theorie.physik.uni-muenchen.de, Munich, Germany)
5. [Bajc Borut](mailto:borut.bajc@ijs.si) (borut.bajc@ijs.si, Ljubljana, Slovenia)
6. [Bakas Ioannis](mailto:bakas@ajax.physics.upatras.gr)* (bakas@ajax.physics.upatras.gr, Patras, Greece)
7. [Balaz Antun](mailto:antun@phy.bg.ac.yu) (antun@phy.bg.ac.yu, Belgrade, SCG)
8. [Behrndt Klaus](mailto:behrndt@aei.mpg.de) (behrndt@aei.mpg.de, Golm, Germany)
9. [Bogojevic Aleksandar](mailto:alex@phy.bg.ac.yu)* (alex@phy.bg.ac.yu, Belgrade, SCG)
10. [Buric Maja](mailto:majab@phy.bg.ac.yu) (majab@phy.bg.ac.yu, Belgrade, SCG)
11. [Cardoso Gabriel Lopes](mailto:gcardoso@physik.hu-berlin.de) (gcardoso@physik.hu-berlin.de, Berlin, Germany)
12. [Chaichian Masud](mailto:chaichia@pcu.helsinki.fi) (chaichia@pcu.helsinki.fi, Helsinki, Finland)
13. [Dimitrijevic Dragoljub](mailto:ddrag@pmf.ni.ac.yu) (ddrag@pmf.ni.ac.yu, Nis, SCG)

14. [Djordjevic Dragan](mailto:ganedj@eunet.yu) (ganedj@eunet.yu, Nis, SCG)
15. [Djordjevic Goran](mailto:gorandj@junis.ni.ac.yu) (gorandj@junis.ni.ac.yu, Nis, SCG/Munich, Germany)
16. [Dogan Berkol](mailto:berkol@ocean.phys.boun.edu.tr) (berkol@ocean.phys.boun.edu.tr, Istanbul, Turkey)
17. [Dragovic Vladimir](mailto:dragovic@fm.sissa.it) (dragovic@fm.sissa.it, Belgrade, SCG/Trieste, Italy)
18. [Ellis John](mailto:John.Ellis@cern.ch)* (John.Ellis@cern.ch, Geneva, Switzerland)
19. [Fiziev Plamen](mailto:fiziev@phys.uni-sofia.bg) (fiziev@phys.uni-sofia.bg, Sofia, Bulgaria)
20. [Grigore Dan Radu](mailto:grigore@theory.nipne.ro) (grigore@theory.nipne.ro, Bucharest, Romania)
21. [Ignjatovic Sinisa](mailto:sinisha@teol.net) (sinisha@teol.net, Banja Luka, Bosnia and Herzegovina)
22. [Kaloper Nemanja](mailto:kaloper@physics.ucdavis.edu) (kaloper@physics.ucdavis.edu, Davis, USA / Novi Sad, SCG)
23. [Kiritsis Elias](mailto:kiritsis@physics.uoc.gr) (kiritsis@physics.uoc.gr, Heraklion, Greece / Paris, France)
24. [Kostov Ivan](mailto:kostov@spht.saclay.cea.fr) (kostov@spht.saclay.cea.fr, Saclay, France / Sofia, Bulgaria)
25. [Kouzminov Vladimir](mailto:v.kouzminov@unesco.org) (v.kouzminov@unesco.org, Venice ROSTE, Italy – GUEST)
26. [Latas Dusko](mailto:latas@phy.bg.ac.yu) (latas@phy.bg.ac.yu, Belgrade, SCG)
27. [Lazarides George](mailto:lazaride@eng.auth.gr) (lazaride@eng.auth.gr, Thessaloniki, Greece)
28. Mateev Matey *(Sofia, Bulgaria)
29. [Matic Katarina](mailto:mkatarin@tesla.rcub.bg.ac.yu) (mkatarin@tesla.rcub.bg.ac.yu, Belgrade, SCG)
30. [Medin Gordana](mailto:medin@ifh.de)* (medin@ifh.de, DESY, Germany / Podgorica, SCG)
31. [Melfo Alejandra](mailto:melfo@ciens.ula.ve) (melfo@ciens.ula.ve, Caracas, Venezuela)
32. [Mikovic Aleksandar](mailto:amikovic@ulusofona.pt) (amikovic@ulusofona.pt, Lisboa, Portugal / Belgrade, SCG)
33. [Milenovic Predrag](mailto:Predrag.Milenovic@cern.ch)* (Predrag.Milenovic@cern.ch, Geneva, Switzerland / Belgrade, SCG)
34. [Minwalla Shiraz](mailto:minwalla@fas.harvard.edu)* (minwalla@fas.harvard.edu, Harvard, USA)
35. [Moeller Lutz](mailto:lmoeller@theorie.physik.uni-muenchen.de) (lmoeller@theorie.physik.uni-muenchen.de, Munich, Germany)
36. [Morozov Alexei](mailto:morozov@itep.ru) (morozov@itep.ru, Moscow, Russia)
37. [Nesic Ljubisa](mailto:nesicl@junis.ni.ac.yu) (nesicl@junis.ni.ac.yu, Nis, SCG)
38. [Nikolaidis Argyris](mailto:nicolaid@ccf.auth.gr) (nicolaid@ccf.auth.gr, Thessaloniki, Greece)
39. [Nikolic Bojan](mailto:bnikolic@phy.bg.ac.yu) (bnikolic@phy.bg.ac.yu, Belgrade, SCG)
40. [Orlov Alexandar Yu.](mailto:orlovs@wave.sio.rssi.ru) (orlovs@wave.sio.rssi.ru, Moscow, Russia)
41. [Popov Todor](mailto:tpopov@inrne.bas.bg) (tpopov@inrne.bas.bg, Sofia, Bulgaria)
42. [Popovic Dragan](mailto:popovic@phy.bg.ac.yu) (popovic@phy.bg.ac.yu, Belgrade, SCG)
43. [Radovanovic Voja](mailto:rvoja@phy.bg.ac.yu) (rvoja@phy.bg.ac.yu, Belgrade, SCG)
44. [Randjbar-Daemi Seif](mailto:randjbar@ictp.trieste.it)* (randjbar@ictp.trieste.it, Trieste, Italy)
45. [Rattazzi Riccardo](mailto:riccardo.rattazzi@cern.ch) (riccardo.rattazzi@cern.ch, Geneva, Switzerland)
46. [Savina Maria](mailto:savina@ihe.jinr.ru) (savina@ihe.jinr.ru, Moscow, Russia)
47. [Sazdovic Branislav](mailto:sazdovic@phy.bg.ac.yu) (sazdovic@phy.bg.ac.yu, Belgrade, SCG)
48. [Schomerus Volker](mailto:vschomer@aei-potsdam.mpg.de) (vschomer@aei-potsdam.mpg.de, Paris, France)
49. [Senjanovic Goran](mailto:goran@ictp.trieste.it) (goran@ictp.trieste.it, Trieste, Italy)
50. [Sochichiu Corneliu](mailto:Corneliu.Sochichiu@Inf.infn.it) (Corneliu.Sochichiu@Inf.infn.it, Frascati, Italy / Chisinau, Moldova)
51. [Sergei Solodukhin](mailto:soloduk@theorie.physik.uni-muenchen.de) (soloduk@theorie.physik.uni-muenchen.de, Munich, Germany)
52. [Stankovic Jelena](mailto:jelena@pmf.ni.ac.yu) (jelena@pmf.ni.ac.yu, Nis, SCG)
53. [Stanojevic Gordan](mailto:gordans@eunet.yu) (gordans@eunet.yu, Nis, SCG)
54. [Steinacker Harold](mailto:hsteinac@theorie.physik.uni-muenchen.de) (hsteinac@theorie.physik.uni-muenchen.de, Munich, Germany)
55. [Terzic Svjetlana](mailto:sterzic@cg.ac.yu) (sterzic@cg.ac.yu, Podgorica, SCG)
56. [Terzic Tomislav](mailto:teki@fizika.org) (teki@fizika.org, Zagreb, Croatia)
57. [Tureanu Anca](mailto:atureanu@pcu.helsinki.fi) (atureanu@pcu.helsinki.fi, Helsinki, Finland)
58. [Visinescu Mihai](mailto:mvisin@theory.nipne.ro) (mvisin@theory.nipne.ro, Bucharest, Romania)
59. [Vojinovic Marko](mailto:vmarko@phy.bg.ac.yu) (vmarko@phy.bg.ac.yu, Belgrade, SCG)
60. [Wess Julius](mailto:wess@theorie.physik.uni-muenchen.de) (wess@theorie.physik.uni-muenchen.de, Munich, Germany)
61. [Zamaklar Marija](mailto:mzama@ictp.trieste.it) (mzama@ictp.trieste.it, Trieste, Italy / Belgrade, SCG)
62. [Zamolodchikov Alexei](mailto:zamolod@LPM.univ-montp2.fr) (zamolod@LPM.univ-montp2.fr, Montpellier, France)

Accommodation

[Vrnjacka Banja](#) is the most famous spa in Serbia. Natural beauty and curative thermal waters have been known and used since Roman times.

Accommodation and lectures, as well as other activities, will be held at the [Postanski dom](#).

Travel

There will be a few buses, small buses and cars on 28-30. operating from Belgrade airport to Vrnjacka Banja. Details will be sent to the participants in person.

Bus timetables:

- From Nis to Vrnjacka Banja: 5.30, 6.10, 7.20, 8.40, 8.15, 10.00, 10.30, 11.20, 12.05, 13, 14.30, 16.00, 16.30, 18.30, 19.30, 21.00
- From Belgrade to Vrnjacka Banja: 6.00, 6.30, 7.30, 7.45, 9.00, 9.20, 10.30, 12.00, 12.30, 14.00, 15.30, 16.00, 17.00, 18.00, 19.00

[Timetable for the domestics and international trains](#)

[How to get to Vrnjacka Banja from Belgrade and from Nish by car?](#)

Suggestion: take the highway that connects Belgrade and Nis (number E-75, route Belgrade-Jagodina-Pojate-Nis). On the 2/3 of destination Belgrade-Nis there is a place **POJATE** (after JAGODINA, if one is coming from Belgrade) where you could turn right, route Krusevac. You will drive thru CICEVAC,....., Krusevac,....., Trstenik, and finally V. Banja.

[Where is "Postanski dom"?](#)

For travel information also see [here](#)

Reimbursement of travel expenses will be done mainly by bank transfer to the participants' account. Participants are kindly asked to provide the organizers with corresponding bank transfer instructions.

Sponsors

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