

Program of the Conference

| MORNING | | | | | | | | |
|-----------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--|--|---|--|---------------------------------------|
| Mon. May 3 | 8:30-9:30 | 9:30 – 10:45 | | | 11:30 – 13:00 | | 13:00-14:30 | |
| Plenary Session Room 1 | <i>Registration</i> | <u>9:30-10:00</u> <i>Larijani</i> | <u>10:00-10:45</u> <i>Nahm</i> | B R E A K | <u>11:30-12:15</u> <i>Tsintsadze</i> | <u>12:15-12:45</u> <i>Arfaei</i> | <i>Lunch</i> | |
| Tue. May 4 | 9:00 – 10:30 | | | 11:00 – 12:30 | | 13:00-14:30 | | |
| Plenary Session Room 1 | <u>9:00-9:45</u> <i>N. Dadhich</i> | <u>9:45-10:30</u> <i>Moniez</i> | B R E A K | <u>11:00-11:45</u> <i>Riazuddin</i> | <u>11:45-12:30</u> <i>Golestanian</i> | <i>Lunch</i> | | |
| Wed. May 4 | 9:00 – 10:30 | | | 11:00 – 12:30 | | 12:30-13:00 | 13:00-14:30 | |
| Plenary Session Room 1 | <u>9:00-9:45</u> <i>Qadir</i> | <u>9:45-10:30</u> <i>Sahni</i> | B R E A K | <u>11:00-11:45</u> <i>Sidharth</i> | <u>11:45-12:30</u> <i>Alishahiha</i> | Future of Regional Conferences <i>Ardalan</i> | <i>Lunch</i> | |
| Thu. May 6 | 9:45 – 10:30 | | | 11:00 – 13:00 | | | | 13:00-14:30 |
| Plenary Session Room 1 | <i>Rahimi-Tabar</i> | | B R E A K | 1st Session Room 1 | <u>11:00-11:30</u> <i>Parvizi</i> | <u>11:30-12:00</u> <i>Angelantonj</i> | <u>12:00-12:30</u> <i>Imaanpur</i> | <u>12:30-13:00</u> <i>Moghimi</i> |
| | | | | 2nd Session Room 2 | <u>11:00-11:30</u> <i>Sepangi</i> | <u>11:30-12:00</u> <i>Sharif</i> | <u>12:00-12:30</u> <i>Saifullah</i> | <u>12:30-13:00</u> <i>Dehghani</i> |
| | | | | 3rd Session Room 3 | <u>11:00-11:30</u> <i>Maraghechi</i> | <u>11:30-12:00</u> <i>Abbasi</i> | <u>12:00-12:30</u> <i>Popovych</i> | <u>12:30-13:00</u> <i>Eshraghi</i> |
| | | | | | | | | <i>Lunch</i> |

| AFTERNOON | | | | | | | | | | |
|--|---|---|--|---|----------------------------------|---|---|---|---|---|
| Mon. May 3 | 14:30 – 16:30 | | | | | 17:30 – 19:30 | | | | |
| 1st Session Room 1 | <u>14:30-15:00</u> <i>Fayyazuddin</i> | <u>15:00-15:30</u> <i>Varadarajan</i> | <u>15:30-16:00</u> <i>Hussain</i> | <u>16:00-16:30</u> <i>Kembhavi</i> | B R E A K | <u>17:30-18:00</u> <i>Arash</i> | <u>18:00-18:30</u> <i>Deldar</i> | <u>18:30-19:00</u> <i>Mirjalili</i> | <u>19:00-19:30</u> <i>Mamadov</i> | |
| 2nd Session Room 2 | <u>14:30-15:00</u> <i>Lukierski</i> | <u>15:00-15:30</u> <i>Mostafazadeh</i> | <u>15:30-16:00</u> <i>Jafarizadeh</i> | <u>16:00-16:30</u> <i>Guler</i> | | <u>17:30-18:00</u> <i>Siddiqui</i> | <u>18:00-18:30</u> <i>Tekin</i> | <u>18:30-19:00</u> <i>Ahmedov</i> | <u>19:00-19:30</u> <i>Kashif</i> | |
| 3rd Session Room 3 | ----- | | | | | <u>17:30-18:00</u> <i>Salimullah</i> | <u>18:00-18:30</u> <i>Mamun</i> | <u>18:30-19:00</u> <i>Shah</i> | <u>19:00-19:30</u> <i>Pahlavani</i> | |
| Tue. May 4 | 14:30 – 16:30 | | | | | 17:30 – 19:30 | | | | |
| 1st Session Room 1 | <u>14:30-15:00</u> <i>Kiritsis</i> | <u>15:00-15:30</u> <i>Garousi</i> | <u>15:30-16:00</u> <i>Minasian</i> | <u>16:00-16:30</u> <i>Hassan</i> | B R E A K | <u>17:30-18:00</u> <i>Ananikyan</i> | <u>18:00-18:30</u> <i>Kobakhidze</i> | <u>18:30-19:00</u> <i>Sadeghi</i> | <u>19:00-19:30</u> <i>Naghiyev</i> | |
| 2nd Session Room 2 | <u>14:30-15:00</u> <i>Tolstoy</i> | <u>15:00-15:30</u> <i>Bolorizadeh</i> | <u>15:30-16:00</u> <i>Ghulghazaryan</i> | <u>16:00-16:30</u> <i>Kochan</i> | | <u>17:30-18:00</u> <i>Kupi</i> | <u>18:00-18:30</u> <i>Arbabi</i> | <u>18:30-19:00</u> <i>Rahvar</i> | <u>19:00-19:30</u> <i>Alimohammadi</i> | |
| 3rd Session Room 3 | <u>14:30-15:00</u> <i>Azadi</i> | <u>15:00-15:30</u> <i>Esfahanian</i> | <u>15:30-16:00</u> <i>Javanmard</i> | <u>16:00-16:30</u> <i>Ghader</i> | | <u>17:30-17:55</u> <i>A. R. Moshfegh</i> | <u>17:55-18:20</u> <i>Vesaghi</i> | <u>18:20-18:45</u> <i>Mkhitaryan</i> | <u>18:45-19:10</u> <i>Parfitt</i> | <u>19:10-19:35</u> <i>Zarbaliev</i> |
| Wed. May 5 | 14:30 – 16:30 | | | | | 17:30 – 19:30 | | | | |
| 1st Session Room 1 | <u>14:30-14:55</u> <i>Banerjee</i> | <u>14:55-15:20</u> <i>Bietenholz</i> | <u>15:20-15:45</u> <i>Sadooghi</i> | <u>15:45-16:10</u> <i>Haghighat</i> | B R E A K | <u>17:30-17:55</u> <i>Shtanov</i> | <u>17:55-18:20</u> <i>Shojai</i> | <u>18:20-18:45</u> <i>Yavartanoo</i> | <u>18:45-19:10</u> <i>Ghods</i> | <u>19:10-19:35</u> <i>Mosaffa</i> |
| 2nd Session Room 2 | <u>14:30-15:00</u> <i>Chavchanidze</i> | <u>15:00-15:30</u> <i>Akhmedov</i> | <u>15:30-16:00</u> <i>Khorrastian</i> | <u>16:00-16:30</u> <i>Loran</i> | | ----- | | | | |
| 3rd Session Room 3 | <u>14:30-14:55</u> <i>Japaridze</i> | <u>14:55-15:20</u> <i>Langari</i> | <u>15:20-15:45</u> <i>Jafarpour</i> | <u>15:45-16:10</u> <i>Cahangirli</i> | | <u>16:10-16:35</u> <i>H.R. Moshfegh</i> | <u>17:30-17:55</u> <i>Asgarzade</i> | <u>17:55-18:20</u> <i>Hosseini</i> | <u>18:20-18:45</u> <i>Irajizad</i> | <u>18:45-19:10</u> <i>Taghav- inia</i> |
| Thu. May 6 | EXCURSION | | | | | | | | | |

List of Speakers in the Plasma Session

Plenary Speakers:

1. N. Tsintsadze: Sound waves in plasmas in the presence of strong magnetic field

Speakers in the parallel sessions:

1. H. Abbasi: Spot size effects on the laser plasma interaction features
2. H. Eshraghi: Zero-spirality in helicityless ideal flows
3. M. A. A. Mamun: Dusty plasma physics: New horizons
4. B. Maraghechi: Relativistic Raman free electron lasers with self-fields
5. M. R. Pahlavani: Emission angle dependence of fission fragments spin in $B^{10&11} + Th^{232}$ and Np^{237} fusion-fission reactions
6. R. Popovych: Group Classification of nonlinear Schroedinger equations with potentials
7. M. Salimullah: An overview of physics of dusty plasmas
8. H. A. Shah: Non Maxwellian distributions in space plasmas

List of Speakers in the Condensed Matter Session

Plenary Speakers:

1. R. Golestanian: Biomolecular electrostatics: A fascinating story
2. M. R. Rahimi-Tabar: Regeneration of stochastic process

Speakers in the parallel sessions:

1. M. Alimohammadi: General integrable reaction-diffusion process
2. N. Ananiyan: Arnold tongues in one and multi-dimensional mapping of physical systems
3. I. Asgharzade: Two-band Ginzburg-Landau theory and its application to recently discovered superconductors
4. Z. A. Canhangirli: Ab initio and Hubbard-Sham model calculation of band structure of GeSe
5. A. A. Hosseini: Inverse photo emission spectroscopy
6. A. Irajizad: Structural and physical properties of porous silicon as a gas sensor
7. F. Jafarpour: Phase transition and shock formation in reaction-diffusion systems: numerical approach
8. G. Japaridze: Magnetic field induced transitions in spin ladders with ferromagnetic legs
9. A. Langari: Charge and magnetization plateaux in strongly correlated systems
10. I. Mehdiyev: Surface freezing transition in liquid Ga-Bi alloys
11. V. Mkhitarian: Bethe Ansatz for the spin-1/2 staggered XXZ-model
12. A. R. Moshfegh: Physics and technology of thin films
13. H. R. Moshfegh: Uniform electron gas fluid in LOCV framework
14. V. Ohanyan: Magnetization plateaux in the Ising limit of the multiple spin exchange model on diamond plaquette chain
15. D. Parfitt: Exactly solvable problems for two-dimensional excitons
16. N. Taghavinia: Control of the size of nanoparticles using UV illumination
17. A. Vesaghi: DLC
18. M. Z. Zarbaliyev: STM and surface photoconductivity of InSe, and GaSe semiconductors

List of Speakers in the General Relativity and Astrophysics Session

Plenary Speakers:

1. N. Dadhich: Universalization as a physical guiding principle
2. M. Moniez: Does transparent hidden matter generate optical scintillation?
3. A. Qadir: Observing black holes
4. V. Sahni: The mysterious nature of dark energy

Speakers in the parallel sessions:

1. H. Ahmedov: Energy momentum tensor in triangular regions
2. S. Arbabi: Voids in the large scale structure of the universe
3. M. H. Dehghani: Magnetic rotating solutions in higher curvature gravity and the counterterm method
4. A. R. Kashif: Spherically symmetric static spacetime and their classification by Ricci inheritance symmetries
5. A. Kembahavi: (Monday or Tuesday) Virtual Observatories
6. G. Kupi: Degenerate fermionic dark matter in galaxies
7. S. Rahvar: Galactic MACHO budget: Problem and possible solution with the abundant Brown Dwarfs
8. K. Saifullah: Ricci conformal collineations for Static spacetimes
9. H. Sepangi: Unification of Higgs and Maxwell fields in higher dimensional gravity
10. M. S. Sharif: Kinematic self-similar solutions
11. F. Shojai: Causal quantum gravity in terms of new variables
12. Y. Shtanov: Some features of braneworld cosmology
13. A. A. Siddiqui: Similarities between time-like geodesics in a naked Reissner-Nordstrom singularity background and the behavior of electrons in quantum theory
14. B. Tekin: Energy in higher curvature gravity model
15. M. Varadarajan: Photons and gravitons from loops

List of Speakers in the hep-ph and hep-th Sessions

Plenary Speakers:

hep-ph

1. H. Arfaei: Iranian collaboration with CERN and CMS
2. Riazuddin: Neutrino Physics: some remarks on the form and origin of neutrino mass
3. B. G. Sidharth: Glimpses of new physics

Speakers in the parallel sessions:

hep-ph

1. F. Arash: Hadronic structure from a basic structure
2. S. Deldar: QCD confinement and fat-center-vortices model
3. Fayazzudin: Electroweak unification based on the gauge group $SU_L(4)$
4. R. Ghulghazaryan: Partition function zeros of potts models on recursive lattices
5. A. Khorramian: The rules of higher order corrections in determining polarized parton densities in the nucleon
6. S. Mamadov: AdS interpretation of two and three point correlation function of QED
7. A. Mirjalili: Investigating the QCD scale dependence of total cross section for heavy quark production in p-pbar collisions

Plenary Speaker:

hep-th

1. M. Alishahiha: String theory
2. W. Nahm: TBA (Thermodynamic Bethe Ansatz)

Speakers in the parallel sessions:

hep-th

1. E. T. Akhmedov: How perturbative expansion in QFT is related to the simplicial string theory
2. C. Angelantonj: Orientifold, supersymmetry breaking and cosmological constant
3. R. Banerjee: Aspects of noncommutative gauge theories and their commutative equivalents
4. W. Bietenholz: A non-perturbative study of the non-commutative ϕ^4 model
5. M. A. Bolorizadeh: A fully quantum mechanical approach to electron capture as a three body problem
6. G. Chavchanidze: Non-Noether symmetries in integrable PDEs
7. M. R. Garousi: Cosmology from rolling massive scalar field on the anti-D3 brane of de Sitter vacua
8. A. Ghodsi: Braneworld inflation
9. Y. Guler: On quantization of constrained systems
10. M. Haghightat: Lorentz invariant noncommutative QED and Bjorken scaling

11. F. Hassan: Worksheet boundary couplings in curved backgrounds and worldvolume covariance
12. F. Hussain: Bounds on four-fermion contact interactions induced by string resonances
13. A. Imaanpur: Deformed instantons
14. M. A. Jafarizadeh: Quantum tomography based on Banach space wavelets
15. E. Kiritsis: String Dynamics in pp-wave background
16. A. Khobakhidze: Unification in higher dimensions
17. D. Kochan: Differential forms and worms
18. F. Loran: Non-Abelianizable first class constraints
19. J. Lukierski: Quantum deformations of relativistic symmetries: recent developments
20. R. Minasian: Mirror symmetry with fluxes
21. S. Moghimi-Araghi: Correlation functions in LCFT's using AdS/LCFT correspondence
22. A. Mosaffa: $N=1$ $G(2)$ super Yang-Mills theory and compactification to three dimensions
23. A. Mostafazadeh: An explicit construction of the Hilbert space and observables in relativistic QM of scalar fields and quantum cosmology
24. S. Naghiev: Exactly solvable finite-difference models of the linear harmonic oscillator
25. S. Parvizi: $N=1/2$ SUSY on $AdS \times S^2$
26. J. Sadeghi: Connection between $N=1$ superconformal algebra and $D(2/1; \alpha)$ in zero mode
27. N. Sadooghi: Effective superpotential of supersymmetric noncommutative $U(1)$
28. V. Tolstoy: Quantum deformation of Jordanian type for Lie superalgebras
29. A. Tureanu: Some aspects of quantum field theory on noncommutative space-time
30. H. Yavartanoo: Multi-spin string solutions in AdS Black hole and confining backgrounds

List of Speakers in the Meteorology Session

1. M. Azadi: The process of numerical weather prediction
2. V. Esfahanian: Numerical simulation of unsteady shallow water equations based on proper orthogonal decomposition
3. S. Ghader: Super compact spatial differencing for the linear and nonlinear geophysical fluid dynamics problems
4. S. Javanmard: Theory and numerical modeling of physical mechanisms in cloud seeding