

# Mahdi Kord Zangeneh

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Last Updated: January, 2018

## ➤ **Current Position**

Assistant Professor

Shahid Chamran University of Ahvaz, Ahvaz, Iran

From 2017 to present

## ➤ **Education**

### **PhD:**

Physics (Gravity)

Shiraz University, Shiraz, Iran

From 2012 to 2017

Thesis title: Gauge/gravity duality in string-generated gravities

Supervisors: Prof. Mohammad Hossein Dehghani, Prof. Ahmad Sheykhi

### **MSc:**

Physics (Gravity and Cosmology)

Shiraz University, Shiraz, Iran

From 2010 to 2012

Thesis title: Traversable Lorentzian wormholes in higher-dimensional space-times

Supervisor: Prof. Nematollah Riazi

### **BSc:**

Physics

Shahid Chamran University of Ahvaz, Ahvaz, Iran

From 2006 to 2010

## ➤ **Visiting Scholar**

Shanghai Jiao Tong University, Shanghai, China

Supervisor: Prof. Bin Wang

From May, 2016 to February, 2017

## ➤ Publications

1. M. Kord Zangeneh, F.S.N Lobo and N. Riazi, *Higher-dimensional evolving wormholes satisfying the null energy condition*, Phys. Rev. D 90, 024072 (2014).
2. M. Kord Zangeneh, A. Sheykhi and M. H. Dehghani, *Thermodynamics of topological dilaton black holes with power-law Maxwell field*, Phys. Rev. D 91, 044035 (2015).
3. M. R. Mehdizadeh, M. Kord Zangeneh and F. S. N. Lobo, *Einstein-Gauss-Bonnet traversable wormholes satisfying the weak energy condition*, Phys. Rev. D 91, 084004 (2015).
4. M. R. Mehdizadeh, M. H. Dehghani and M. Kord Zangeneh, *Counterterms for static Lovelock solutions*, Eur. Phys. J. C 75, 276 (2015).
5. M. Kord Zangeneh, A. Sheykhi and M. H. Dehghani, *Thermodynamics of topological nonlinear charged Lifshitz black holes*, Phys. Rev. D 92, 024050 (2015).
6. M. R. Mehdizadeh, M. Kord Zangeneh and F. S. N. Lobo, *Higher-dimensional thin-shell wormholes in third-order Lovelock gravity*, Phys. Rev. D 92, 044022 (2015).
7. M. Kord Zangeneh, M. H. Dehghani and A. Sheykhi, *Thermodynamics of Gauss-Bonnet-dilaton Lifshitz black branes*, Phys. Rev. D 92, 064023 (2015).
8. M. Kord Zangeneh, A. Sheykhi and M. H. Dehghani, *Thermodynamics of charged rotating dilaton black branes with power-law Maxwell field*, Eur. Phys. J. C 75, 497 (2015).
9. M. Kord Zangeneh, M. H. Dehghani and A. Sheykhi, *Thermodynamics of topological black holes in Brans-Dicke gravity with a power-law Maxwell field*, Phys. Rev. D 92, 104035 (2015).
10. M. Kord Zangeneh, F. S. N. Lobo and M. H. Dehghani, *Traversable wormholes satisfying the weak energy condition in third-order Lovelock gravity*, Phys. Rev. D 92, 124049 (2015).
11. M. Kord Zangeneh, A. Dehyadegari, A. Sheykhi and M. H. Dehghani, *Thermodynamics and gauge/gravity duality for Lifshitz black holes in the presence of exponential electrodynamics*, JHEP 1603, 037 (2016) [arXiv:1601.04732 [hep-th]].
12. M. Kord Zangeneh, A. Dehyadegari and A. Sheykhi, *Comment on "Insight into the Microscopic Structure of an AdS Black Hole from Thermodynamical Phase Transition"*, arXiv:1602.03711 [hep-th].

13. A. Dehyadegari, A. Sheykhi and M. Kord Zangeneh, *Holographic conductivity for logarithmic charged dilaton-Lifshitz solutions*, Phys. Lett. B 758, 226 (2016) [arXiv:1602.08476 [hep-th]].
14. Z. Y. Tang, C. Y. Zhang, M. Kord Zangeneh, B. Wang and J. Saavedra, *Thermodynamical and dynamical properties of charged BTZ black holes*, EPJC 77, 390 (2017) [arXiv:1610.01744].
15. M. Kord Zangeneh, A. Dehyadegari, M. R. Mehdizadeh, B. Wang and A. Sheykhi, *Thermodynamics, phase transitions and Ruppeiner geometry for Einstein-dilaton Lifshitz black holes in the presence of Maxwell and Born-Infeld electrodynamics*, EPJC 77, 423 (2017) [arXiv:1610.06352].
16. M. Kord Zangeneh, B. Wang, A. Sheykhi and Z. Y. Tang, *Charged scalar quasi-normal modes for linearly charged dilaton-Lifshitz solutions*, Phys. Lett. B 771, 257 (2017) [arXiv:1701.03644].
17. A. Dehyadegari, M. Kord Zangeneh and A. Sheykhi, *Holographic conductivity in the massive gravity with power-law Maxwell field*, Phys. Lett. B 773, 344 (2017) [arXiv:1703.00975].
18. M. Kord Zangeneh, Y. C. Ong and B. Wang, *Entanglement entropy and complexity for one-dimensional holographic superconductors*, Phys. Lett. B 771, 235 (2017) [arXiv:1704.00557].
19. M. Kord Zangeneh, A. Dehyadegari, A. Sheykhi and R. B. Mann, *Microscopic origin of black hole reentrant phase transitions*, arXiv:1709.04432.
20. M. Kord Zangeneh, S. S. Hashemi, A. Dehyadegari, A. Sheykhi and B. Wang, *Optical properties of Born-Infeld-dilaton-Lifshitz holographic superconductors*, arXiv:1710.10162.

## ➤ Presentations

1. M. Kord Zangeneh and N. Riazi, *Wormholes in an  $(n+1)$ -dimensional cosmological background*, **Oral Talk**, National conference of gravitation and cosmology, Tehran University, Tehran, Iran, 2012.
2. M. Kord Zangeneh and M. H. Dehghani, *Traversable Lorentzian wormholes in Lovelock brane world*, **Oral Talk**, Spring conference of theoretical physics, Institute for research in fundamental sciences (IPM), Tehran, Iran, 2012.
3. M. Kord Zangeneh, A. Dehyadegari, A. Sheykhi and M. H. Dehghani, *Holographic conductivity of Lifshitz dilaton black holes with*

*exponential nonlinear electrodynamics*, **Oral Talk**, National conference of gravitation and cosmology, Shahid Beheshti University, Tehran, Iran, 2016.

## ➤ **Teaching Experiences**

1. Astronomy and Astrophysics, Teacher, Shahid Chamran University of Ahvaz.
2. Physics I and II, Teacher, Shahid Chamran University of Ahvaz.
3. Physics I, Teacher, Shiraz University.
4. Gravitation I, Teacher Assistant, Shiraz University.
5. Quantum mechanics I and II, Teacher Assistant, Shiraz University.
6. Electromagnetism I, Teacher Assistant, Shiraz University.
7. Topology and differential geometry, Teacher Assistant, Shiraz University.

## ➤ **Honors**

1. Under support of "National Elites Foundation" of I. R. of Iran on 2016.
2. Entering PhD by using priority of outstanding students.
3. Member of "Office of Gifted Students of Shiraz University".
4. Participating at 5th International Conference of "Eclipsing and Occultation", Isfahan, Iran, 2015.
5. Participating at first workshop of "*Monitoring of space objects*", Iran Space Agency (ISA), Observatory of Alborz space center, 2013.
6. Participating at International Conference of "Gauge/gravity Duality and Its Applications", Shanghai University, Shanghai, China, 2016.
7. Participating at "Spring School on Superstring Theory and Related Topics" at the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, March 2017.

## ➤ **Computer Skills**

- ✓ MAPLE Software and GRTensor package
- ✓ MATHEMATICA Software and XAct package
- ✓ Word, Excel and PowerPoint Softwares

## ➤ **Contact information**

E-mail Address:

[mkzangeneh@scu.ac.ir](mailto:mkzangeneh@scu.ac.ir)

[kordzangeneh.mehdi@gmail.com](mailto:kordzangeneh.mehdi@gmail.com)