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ОБРАЗОВАНИЕ

- 1973 - 1978 – ОКС „магистър“ – СУ «Климент Охридски», Физически факултет
- 1995 - 2000 – ОНС „доктор“ – ИЯИЯЕ БАН - научна специалност *Неутронна и реакторна физика*
- 2002-2004 JNC, Япония – *пост-докторска специализация*

ПРОФЕСИОНАЛЕН ОПИТ

- 1979 - 1982 АЕЦ Козлодуй - контролиращ физик
- 1983 – 2002 – ТУ Варна, катедра Физика - преподавател
- от 2004 – ВСУ „Черноризец Храбър“ - преподавател

НАУЧНИ ИНТЕРЕСИ

- Неутронно-физични процеси в ядрени реактори;
- Ядрена енергетика;
- Радиационна защита

УЧАСТИЕ В ПРОЕКТИ

- EU FP6 NURESIM Integrated Project (2005-2008)
- EU FP7 NURISP Collaborative Project (2009 -2011)
- EU FP7 NURESAFE Collaborative Project (2013- 2015)

СЕРТИФИКАТИ, СПЕЦИАЛИЗАЦИИ, МОБИЛНОСТИ

- 2002-2004 – *Следдокторска специализация в Japan Nuclear Cycle Development Institute (JNC), Япония*
- 2005-2009 – *Обучения по специализиран софтуер за реакторни анализи в СЕА, Франция (APOLLO2, CRONOS, SOLOME platform и др.)*
- Юли 2013 Курс по STF софтуер за термохидравлични анализи – лектор от PSU, USA, RDFMG
- Юли 2017 Баку - Курс за лектори за обучение на отговорници по радиационна защита в медицински и промишлени предприятия, IAEA

Списък на публикации на
Галина Димова Годорова (-Алекова)

Статии в научни журналы с IF / SJR

1. N.Petrov, G.Todorova, N.P.Kolev, “*APOLLO2 and TRIPOLI4 solutions of the OECD VVER-1000 LEU and MOX assembly benchmark*”, *Annals of Nuclear Energy*, 55 (2013) 93–107, Elsevier ISSN 03064549 <http://dx.doi.org/10.1016/j.anucene.2012.12.010> ; IF 1.020
2. N.P.Kolev, N.Petrov, G.Todorova, P.Bellier, “*OECD VVER-1000 LEU and MOX assembly benchmark solutions with APOLLO2*”, *Transactions of the ANS*, vol. 97 (2007) 705-707, ISSN: 0003-018X; SJR 0.218; <https://www.tib.eu/en/search/id/BLSE%3ARN218219936/OECD-VVER-1000-LEU-and-MOX-Assembly-Benchmark-Solution>
3. G. Todorova, H. Nishi, J. Ishibashi “*Transport Criticality Analysis of FBR MONJU Initial Critical Core in Whole Core Simulation by NSHEX and GMVP*”, *Journal of Nuclear Science and Technol.*, 41[4], pp. 493-501(2004), ISSN 0022-3131; SJR 0.542
4. G. Todorova, H. Nishi, J. Ishibashi *Method for Condensation of the Macroscopic Transport Cross-Sections for Criticality Analyses of FBR MONJU by the Code NSHEX. Journal of Nuclear Science and Technol.*, 41[12], Dec. 2004, pp 1237-1244, ISSN 0022-3131; SJR 0.542
5. G. Alekova, T. Apostolov, “*Improved coarse-mesh method for neutron diffusion calculations in hexagonal-Z geometry*”, *Kerntechnik*, Vol. 64 No 4 (1999), pp 198-203 ISSN 0932-3902; IF 0.265 (2010)
6. T. Apostolov, G. Alekova and K. Ivanov, “*Comparative Analysis of VVER-1000 Benchmark Calculations and Improvements in Hexagonal-Z Diffusion Methodology*”, *Annals of Nuclear Energy*, Vol 25, No 1-3, 1998, pp 83-95, Elsevier ISSN 03064549; IF 1.020

Статии в сборници с доклади от конференции с SJR индекс:

7. N.Zheleva, N.Petrov, G.Todorova, N.Kolev (2014) “*Generation and testing of XS libraries for VVER using APOLLO2 and TRIPOLI4*”, *Proc. Joint Int. Conf. on Supercomputing in Nuclear Applications and Monte Carlo (SNA + MC 2013) Paris, France, October 27-31, 2013*, © SFEN France, 2014 https://sna-and-mc-2013-proceedings.edpsciences.org/articles/snamic/abs/2014/01/snamic2013_02212/snamic2013_02212.html; SJR 0.171 (2015)
8. N. Zheleva, P. Ivanov, G. Todorova, N. Kolev, J.J. Herrero, “*Benchmarking of calculation schemes in APOLLO2 and COBAYA3 for VVER lattices*”, *Proc. International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering, M and C 2013, Sun Valley, Idaho, May 5-9, 2013, Vol.1*, pp. 13-26, ISBN 978-0-89448-700-2

<http://www.ans.org/store/item-700377/> © American Nuclear Society, LaGrange Park, IL; SJR 0.307

9. N.Petrov, G.Todorova, N.Kolev, F.Damian, “Two-level MOC calculation scheme in APOLLO2 for XS library generation for LWR hexagonal assemblies”, Proc. Int. Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering, M and C 2011, Rio de Janeiro, May 2011 © ANS, LaGrange Park, IL, ISBN 978-85-63688-00-2; SJR 0.272 <https://www.researchgate.net/publication/267383257>
10. N.Petrov, N.P.Kolev, G.Todorova, F.-X.Hugot, T.Visonneau, „TRIPOLI4 Solutions to VVER-1000 Assembly and Core Benchmarks“, Proc. ANS - Int. Conf. on Mathematics, Computational Methods and Reactor Physics 2009, M&C 2009, Saratoga Springs, USA, May 2009, © ANS, LaGrange park, IL. ISBN: 978-0-89448-069-0; SJR 0.267 <https://www.researchgate.net/publication/290094267> TRIPOLI4 solutions of VVER-1000 assembly and core benchmarks
11. G.Todorova, N.Petrov, N.P.Kolev, P.Bellier, H.Golfier, “2D core calculations with APOLLO2 for VVER-1000”, Proc. ANS/ENS Int. Conference on the Physics of Reactors 2008, PSYSOR 08, Interlaken, Switzerland, September 14-19, 2008, Vol.1, pp.643-650 ISBN 978-3-9521409-5-6; © PSI, Switzerland SJR 0.282 <https://inis.iaea.org/search/searchsinglerecord.aspx?recordsFor=SingleRecord&RN=41119233>

Статии в научни списания без IF / SJR

12. G. Todorova, H. Nishi, J. Ishibashi, “*MONJU Core Neutronics Analysis Method Upgrading Research - New Collapsing Algorithm for Condensation of the Macroscopic Transport Cross-Sections for the 3-D Transport Code NSHEX*”, JNC Technical Review (Saikuru Kiko Giho), 27, [2005.6], pp 1-16, (2005), ISSN 1344-4239, <https://rdreview.jaea.go.jp/gihou/pdf3/n27-01.pdf>
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14. Г. Тодорова. *Ролята на бързите реактори в ядрения горивен цикъл и настоящ статус на японския бърз реактор MONJU*. Научен алманах на Варненския Свободен Университет “Черноризец Храбър”, Кн.2, серия Архитектура и Строителство, 2005, стр. 99-107
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16. Г. Алекова, Р. Проданова Т. Апостолов, “*Пресмятане на неутронно-физични характеристики на реактори тип ВВЕР-1000*”, Механика на машините, 32, Кн. 4.

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18. Р. Проданова, Г. Алекова, Т. Апостолов, ”*Реакторно-физични пресмятания със системата RADMAGRU-HEXAB-3DI*“, Доклади на БЯД, Том 5, Брой 2, Септември 2000, pp. 105-106. ISSN 0861-9727
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<http://oa.upm.es/19569/>
22. G.Todorova, N.Petrov, N.Zheleva, N.Kolev, “Advanced calculation schemes for XS library generation in hexagonal geometry with APOLLO2”, Proc. 21st Symposium of AER on VVER Reactor Physics and Reactor Safety, Drezden, 2011, MTA Atomenergia Press, Budapest (2011)
<http://www.aer-web.com/paper/314>
23. G.Todorova, N.Petrov, N.P.Kolev, F.-X.Hugot, “2D core solutions for VVER-1000 with APOLLO2 and TRIPOLI4”, Proc. 19th AER Symposium on VVER reactor physics and safety, Varna, September 21-25, 2009, pp. 167-182; ISBN 978-963-372-642-6
<http://www.aer-web.com/paper/407>
24. G. Todorova, H. Nishi, J. Ishibashi. *A Study on the Effect of the Cross-Sections Collapsing Method in FBR MONJU Criticality Analysis by the Transport Codes NSHEX and GMVP*. Proc. 2004 Annual Meeting of the Atomic Energy Society of Japan, Okayama, Japan, March. 29-31, 2004, p.490 (O55), (2004)
25. G. Todorova, H. Nishi, J. Ishibashi. „*A study on Energy Group Dependency of Transport Effect in FBR MONJU Initial Critical Core Criticality Analysis*“. Proc. 2003 Fall Meeting of the Atomic Energy Society of Japan, Shizuoka, Japan, Sept. 24-26, 2003, p.301 (E22), (2003)

26. T. Apostolov, G. Alekova, R. Prodanova, „*WWER-1000 Steady State Calculations by HEXAB-3DI – RADMAGRU Code System - Research Activity, Recent Results and Perspective*“, Proc. of the 10th Symposium of AER. September 18-22, 2000, Moscow, Russia, Pp. 875-885, AER SK01ST107, INIS-SK-01-010;
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27. G. Alekova, T. Apostolov, “*Solution of VVER-1000 Benchmark by HEXAB-3D Improved Version*”, Proc. of the VIII AER Symposium on VVER Reactor Physics and Reactor Safety. Sept. 21-25, 1998, Bystrice nad Pernštejnem, Czech Republic. pp. 421-427, ISBN 963-372-615-8, Proceedings of the eighth Symposium of AER, INIS Volume 31, Issue 25;
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29. T. Apostolov, G. Alekova, R. Prodanova, T. Petrova and K. Ivanov, “*VVER In-Core Fuel Management Benchmark Definition, Benchmark Calculations and Comparative Analyses*”, Proc. of the International Conference on Reactor Physics and Reactor Computations, 526, Tel Aviv, Israel, January 23-26 1994. pp. 526-533,
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31. Т. Апостолов, К. Иванов, Р. Проданова, М. Манолова, Т. Петрова, Г. Алекова, “*Програмни системи за оперативно и прецизно пресмятане на основните неутронно-физически характеристики, избор на оптимални картограми за презареждане на активните зони, анализ и обосновка на режимите на експлоатация на действащите и перспективни реактори ВВЕР*”. Сборник доклади на Научно-Технически Семинар по Математически Модели в Ядрената Безопасност и Радиационната Защита, Комитет за мирно използване на ядрената енергия, София. 7-8 Април 1993. стр 212-220;
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<http://aerbench.kfki.hu/aerbench/>

Научни съобщения, доклади, рецензирани документи по европейски проекти и др.

35. N.Zheleva, Todorova G., Kolev N., Sanchez-Cervera S., Garcia-Herranz N. Pin-level VVER cross-section library parameterized for MSLB, NURESAFE D14.26-v1 EU-Euratom Project Report, Oct 2015, 2015, p.1-50
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39. G.Todorova, N.Zheleva, N.Petrov, P.Ivanov, N.P.Kolev (INRNE), JJ.Herrero (UPM) “Specifications and results of the VVER lattice benchmark using APOLLO2, TRIPOLI4 and COBAYA3 pin-by-pin”, NURISP R-D1.4.5a, January and May 2012
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41. N.Kolev, N.Petrov, G.Todorova, C.Magnaud, F.Damian, P.Bellier, Development of Calculation Schemes and Generation of XS Libraries with APOLLO2 at the Nodal level for CRONOS2 and DYN3D Diffusion and SP3 Analyses of PWR and VVER . D1.3.1. NURISP document, (2011)
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46. N.Petrov, G.Todorova, N.Kolev, F.Damian, P.Bellier. Advanced Calculation Schemes for XS Libraries Generation with APOLLO2 at the Nodal level; NURISP SP1 Meeting, Varna, Sept 29-Oct 1, 2010
47. N.Kolev, N.Petrov, G.Todorova, C.Magnaud, F.Damian, P.Bellier (2010) “Development of calculation schemes and generation of XS libraries with APOLLO2 at the nodal level for CRONOS2 and DYN3D diffusion and SP3 analysis of PWR and VVER”, EU-Euratom NURISP D1.3.1 Report, February 2010
48. N.P.Kolev, J.Donov, G.Todorova N.Petrov, D.Popov, K.Kamenov, “VVER-1000 Data for Core Physics Calculations”, EURATOM NURESIM Project Report, November, 2008
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