Авторска справка за приносния характер на трудовете

на

Владислав Тодоров Тодоров

за защита на дисертация на тема:

Разработване на Compton-TDCR система за приложение в радионуклидната метрология

за придобиване на научно-образователна степен „доктор“

по Физически науки

към Физически факултет на СУ „Св. Климент Охридски“

Таблица 1. Сравнителна таблица с препоръчителни изисквания на ФзФ.

Препоръчителни критерии на ФзФ	Кандидат
- Минимум 2 публикации, от които поне 1 публикация от група I или от група II	**1.** V. Todorov, P. Cassette, V. Jordanov, S. Ivanov, H. Stoycheva, S. Georgiev, B. Sabot, K. Mitev, “Design of a new Compton-TDCR spectrometer at Sofia University for the characterization of Liquid Scintillation cocktails,” Applied Radiation and Isotopes, vol. 226, 112194, Dec. 2025. DOI: 10.1016/j.apradiso.2025.112194, **Група I (Q2)** **2.** V. Todorov, P. Cassette, S. Georgiev, B. Sabot, K. Mitev, “Automatic system for testing PMT photocathode homogeneity,” J Radioanal Nucl Chem, vol. 334, no. 9, pp. 5919–5931, Mar. 2025, DOI: 10.1007/s10967-025-10028-y, **Група II (Q3)** **3.** V. Todorov, K. Mitev, P. Cassette, and B. Sabot, “Investigation of the possible effect of the accidental coincidences correction on the determination of kB value by efficiency variation with grey filters” J Radioanal Nucl Chem, vol. 334, no. 9, pp. 5943–5950, May 2025 DOI: 10.1007/s10967-025-10173-4, **Група II (Q3)** **4.** P. Cassette, V. Todorov, B. Sabot, S. Georgiev, and K. Mitev, “Uncertainties in TDCR measurement revisited: Contribution of optical effects”, Applied Radiation and Isotopes, vol. 201., p. 110992, Nov. 2023. DOI: 10.1016/j.apradiso.2023.110992. **Група I (Q2)** **5.** K. Mitev, V. Todorov, P. Cassette, B. Sabot, ‘MCLTDCR: A Monte Carlo Code for Generation of List Mode TDCR files’, Applied Radiation and Isotopes, vol. 226, 112094, Dec. 2025, DOI: 10.1016/j.apradiso.2025.112094 **Група I (Q2)** **6.** V. Todorov, P. Cassette, S. Georgiev, H. Stoycheva, R. Vasileva, and K. Mitev, “Application of TDCR Counting for Primary Standardization of Radon-in-Water Samples” 2024 XXXIV International Scientific Symposium Metrology and Metrology Assurance (MMA). IEEE, DOI: 10.1109/MMA62616.2024.10817679 **Група III (SJR)**
- Публикации със съществен принос - в поне 1 публикация от група I или от група II	**1.** V. Todorov, P. Cassette, V. Jordanov, S. Ivanov, H. Stoycheva, S. Georgiev, B. Sabot, K. Mitev, “Design of a new Compton-TDCR spectrometer at Sofia University for the characterization of Liquid

	Scintillation cocktails," Applied Radiation and Isotopes, vol. 226, p. 112194, Dec. 2025. DOI: 10.1016/j.apradiso.2025.112194 **Група I (Q2)** **2.** V. Todorov, P. Cassette, S. Georgiev, B. Sabot, K. Mitev, "Automatic system for testing PMT photocathode homogeneity," J Radioanal Nucl Chem, vol. 334, no. 9, pp. 5919–5931, Mar. 2025, DOI: 10.1007/s10967-025-10028-y **Група II (Q3)** **3.** V. Todorov, K. Mitev, P. Cassette, and B. Sabot, "Investigation of the possible effect of the accidental coincidences correction on the determination of kB value by efficiency variation with grey filters" J Radioanal Nucl Chem, vol. 334, no. 9, pp. 5943–5950, May 2025 DOI: 10.1007/s10967-025-10173-4 **Група II (Q3)** **4.** V. Todorov, P. Cassette, S. Georgiev, H. Stoycheva, R. Vasileva, and K. Mitev, "Application of TDCR Counting for Primary Standardization of Radon-in-Water Samples" 2024 XXXIV International Scientific Symposium Metrology and Metrology Assurance (MMA). IEEE, DOI: 10.1109/MMA62616.2024.10817679 **Група III (SJR)**
- Поне една конференция с доклад или постер	**1.** V. Todorov, P. Cassette, S. Georgiev, H. Stoycheva, R. Vasileva, and K. Mitev, "Application of TDCR Counting for Primary Standardization of Radon-in-Water Samples" 2024 XXXIV International Scientific Symposium Metrology and Metrology Assurance (MMA), Созопол, 7-11 септември 2024 **(доклад)** **2.** V. Todorov, P. Cassette, V. Jordanov, S. Ivanov, H. Stoycheva, S. Georgiev, B. Sabot, K. Mitev, 'Design of a new Compton-TDCR spectrometer at Sofia University for the characterization of Liquid Scintillation cocktails', 24th International Committee for Radionuclide Metrology (ICRM2025), Париж, 19-23 Май, 2025 **(постер)**

Забелязани са две независими цитирания:

Статия	Цитирана в
P. Cassette, V. Todorov, B. Sabot, S. Georgiev, and K. Mitev, "Uncertainties in TDCR measurement revisited: Contribution of optical effects", Applied Radiation and Isotopes, vol. 201., p. 110992, Nov. 2023. DOI: 10.1016/j.apradiso.2023.110992.	R. Coulon et al., "Description of the ballistic dependance in triple-to-double coincidence ratio (TDCR) method using a surrogate optical model," Applied Radiation and Isotopes, vol. 226, p. 112200, Dec. 2025, doi: 10.1016/j.apradiso.2025.112200.
K. Mitev, V. Todorov, P. Cassette, B. Sabot, 'MCLTDCR: A Monte Carlo Code for Generation of List Mode TDCR files', Applied Radiation and Isotopes, vol. 226, 112094, Dec. 2025, DOI: 10.1016/j.apradiso.2025.112094 (Q2)	R. Coulon et al., "Description of the ballistic dependance in triple-to-double coincidence ratio (TDCR) method using a surrogate optical model," Applied Radiation and Isotopes, vol. 226, p. 112200, Dec. 2025, doi: 10.1016/j.apradiso.2025.112200.

Дата: 22.06.2026 г. Подпис:

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Date: 2026.06.22 18:54:58+03'00'

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