

**Publications list, conference presentations and attended meetings** (corresponding author underlined)

1. M. Avrigeanu and V. Avrigeanu, Phys. Lett. B **858**, 139078 (2024) *Supplemental Material: The ISGQR systematics' widths and Lorentzian shapes use within neutron-induced  $\alpha$ -emission analysis*, <https://www.sciencedirect.com/science/article/pii/S0370269324006361#se0090> [AIS Q1], [[EUROfusion Pinboards](#) No. 410/2024]
2. E. Simeckova, M. Avrigeanu, J. Mrazek, J. Novak, M. Stefanik, C. Costache, and V. Avrigeanu, *Deuteron-induced neutron emission on molybdenum at low energies*, Phys. Rev. C **111**, 044612 (2025), <https://doi.org/10.1103/PhysRevC.111.044612> [[EUROfusion Pinboards](#) No. 942/20 Nov. 2024]
3. M. Avrigeanu, E. Simeckova, J. Mrazek, X. Ledoux, J. Novak, M. Stefanik, M. Ansorge, A. Cassisa, J. Kozic, C. Costache, and V. Avrigeanu, *A long-standing problem: the nuclear level density angular-momentum dependence and isomeric data assessment. Supplemental Material*, Phys. Rev. Research **8**, 023001 (2026), <https://doi.org/10.1103/cjqq-6psq> [[EUROfusion Pinboards](#) No. 465/2025, 2025-10-15]
4. E. Simeckova, M. Avrigeanu, J. Mrazek, X. Ledoux, J. Novak, M. Stefanik, M. Ansorge, A. Cassisa, J. Kozic, C. Costache, and V. Avrigeanu, *Deuteron-induced charged-particle emission on molybdenum at low energies*, Phys. Rev. C **113**, 044604 (2026), <https://doi.org/10.1103/1yw3-6mmp> [[EUROfusion Pinboards](#) No. 526/2025, 2025-11-29]
5. M. Avrigeanu, C. Costache, and V. Avrigeanu, *On the breakup and direct interactions in deuteron-induced reactions within the A~90 mass range*, 16th Nuclear Data for Science and Technology Conf. (ND2025), June 22nd - 27th, 2025, Madrid, Spain (<https://nd2025madrid.com/>); EPJ Web of. Conferences (to be submitted, Dec. 2025), [[EUROfusion Pinboards](#) No. 528/2025, 2025-11-29].
6. M. Avrigeanu and V. Avrigeanu, *Statistical alpha-particle emission and the related optical potential validation*, 16th Nuclear Data for Science and Technology Conf. (ND2025), June 22nd - 27th, 2025, Madrid, Spain (<https://nd2025madrid.com/>), EPJ Web of. Conferences (to be submitted, Dec. 2025), [[EUROfusion Pinboards](#) No. 531/2025, 2025-12-01]
7. M. Avrigeanu and V. Avrigeanu, *Progress report on deuteron-induced reaction analysis*, Report EFFDOC-1546, OECD/NEA JEFF (Nov 25-28, 2024) & EUROfusion WPBB-S.05.02-T007 Monitoring meeting, Nov 25, 2024, [https://www.oecd-nea.org/dbdata/nds\\_effdoc/effdoc-1546.pdf](https://www.oecd-nea.org/dbdata/nds_effdoc/effdoc-1546.pdf)
8. V. Avrigeanu and M. Avrigeanu, *Progress report on neutron-induced alpha-particle emission analysis*, Report EFFDOC-1547, OECD/NEA JEFF (Nov 25-28, 2024) & EUROfusion WPBB-S.05.02-T007 Monitoring meeting, Nov 25, 2024, [https://www.oecd-nea.org/dbdata/nds\\_effdoc/effdoc-1547.pdf](https://www.oecd-nea.org/dbdata/nds_effdoc/effdoc-1547.pdf)
9. M. Avrigeanu, C. Costache, and V. Avrigeanu, *Progress report on deuteron-induced reaction analysis*, Report EFFDOC-1570, JEFF Nuclear Data Week, OECD/NEA, Nov 17-21, 2025; EUROfusion WPBB-S.05.02-T009 Monitoring meeting, Nov 17, 2025, [https://www.oecdnea.org/dbdata/nds\\_effdoc/effdoc-1570.pdf](https://www.oecdnea.org/dbdata/nds_effdoc/effdoc-1570.pdf)
10. V. Avrigeanu and M. Avrigeanu, *Progress report on neutron-induced alpha-particle emission analysis*, Report EFFDOC-1571, JEFF Nuclear Data Week, OECD/NEA, Nov 17-21, 2025, EUROfusion WPBB-S.05.02-T009 Monitoring meeting, Nov 17, 2025, [https://www.oecdnea.org/dbdata/nds\\_effdoc/effdoc-1571.pdf](https://www.oecdnea.org/dbdata/nds_effdoc/effdoc-1571.pdf)
11. M. Avrigeanu, C. Costache, and V. Avrigeanu, *Long-standing problem of nuclear level density angular-momentum dependence and isomeric data assessment*, Report EFFDOC-1585, JEFF Nuclear Data Week, OECD/NEA, Apr 13, 2026; [https://www.oecdnea.org/dbdata/nds\\_effdoc/effdoc-1585.pdf](https://www.oecdnea.org/dbdata/nds_effdoc/effdoc-1585.pdf)
12. V. Avrigeanu, M. Avrigeanu, and C. Costache, *On 2026 data in support of the TALYS default alpha-particle optical model potential*, Report EFFDOC-1586, JEFF Nuclear Data Week, OECD/NEA, Apr 13, 2026; [https://www.oecdnea.org/dbdata/nds\\_effdoc/effdoc-1586.pdf](https://www.oecdnea.org/dbdata/nds_effdoc/effdoc-1586.pdf)