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Research interests

Experimental nuclear physics

Research interests

Nuclear applications and detector development

Research outputs

Isospin symmetry breaking in the $T=1$, $A=70$ triplet

Zimba, G. L., Ruotsalainen, P., De Gregorio, G., De Angelis, G., Sarén, J., Uusitalo, J., Auranen, K., Briscoe, A. D., Ge, Z., Grahn, T., Greenlees, P. T., Illana, A., Jenkins, D. G., Joukainen, H., Julin, R., Jutila, H., Kankainen, A., Louko, J., Luoma, M. & Ojala, J. & 8 others, Pakarinen, J., Raggio, A., Rahkila, P., Romero, J., Stryczyk, M., Tolosa-Delgado, A., Wadsworth, R. & Zadornaya, A., 16 Aug 2024, In: Physical Review C. 110, 2, 13 p., 024314.

Corrigendum to "A Segmented Total Energy Detector (sTED) optimized for (n,γ) cross-section measurements at n_TOF EAR2" [Radiat. Phys. Chem. 217 (April 2024) 111525] (Radiation Physics and Chemistry (2024) 217, (S0969806X24000173), (10.1016/j.radphyschem.2024.111525))

n-TOF Collaboration, Jul 2024, In: Radiation Physics and Chemistry. 220, 111706.

Pushing the high count rate limits of scintillation detectors for challenging neutron-capture experiments

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Cluster states and their potential contribution to carbon burning in massive stars

Cseh, J., Riczu, G. & Jenkins, D. G., 4 Apr 2024, In: Physical Review C. 109, 4, 044309.

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The n TOF Collaboration (www.cern.ch/ntof), 19 Mar 2024, In: European Physical Journal A. 60, 3, 70.

The n_TOF facility at CERN

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the PARIS and MONSTER COLLABORATIONS, Mar 2024, In: Nuovo Cimento della Societa Italiana di Fisica C. 47, 2, 7 p., 19.

High-resolution cross section measurements for neutron interactions on ^{89}Y with incident neutron energies up to 95 keV
The n TOF Collaboration (www.cern.ch/ntof), 31 Jan 2024, In: European Physical Journal A. 60, 1, 18 p., 21.

Nuclear data: A collective motion view

Jenkins, D. & Wood, J. L., 14 Dec 2023, Institute of Physics Publishing. 58 p.

Measurement of the neutron-induced fission cross section of Th 230 at the CERN n_TOF facility

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Characterization of the n-TOF EAR-2 neutron beam

Chen, Y. H., Tassan-Got, L., Audouin, L., Le Naour, C., Durán, I., Casarejos, E., Aberle, O., Andrzejewski, J., Bécaries, V., Bacak, M., Balibrea-Correa, J., Barbagallo, M., Barros, S., Bečvář, F., Beinrucker, C., Berthoumieux, E., Billowes, J., Bosnar, D., Brugger, M. & Caamaño, M. & 114 others, Calviño, F., Calviani, M., Cano-Ott, D., Cardella, R., Casanovas, A., Castelluccio, D. M., Cerutti, F., Chiaveri, E., Colonna, N., Cortés, G., Cortés-Giraldo, M. A., Cosentino, L., Damone, L. A., Diakaki, M., Domingo-Pardo, C., Dressler, R., Dupont, E., Fernández-Domínguez, B., Ferrari, A. C., Ferreira, P. R., Finocchiaro, P., Furman, V., Göbel, K., Gómez-Hornillos, M. B., García, A. R., Gawlik, A., Glodariu, T., Gonçalves, I. F., González-Romero, E., Goverdovski, A., Griesmayer, E., Guerrero, C., Günsing, F., Harada, H., Heftrich, T., Heinitz, S., Heyse, J., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Katabuchi, T., Kavrigin, P., Ketlerov, V., Khryachkov, V., Kimura, A., Kivel, N., Kokkoris, M., Krtička, M., Leal-Cidoncha, E., Lederer, C., Leeb, H., Leredegui-Marco, J., Lo Meo, S., Lonsdale, S. J., Losito, R., Macina, D., Marganec, J., Martínez, T., Massimi, C., Mastinu, P. F., Mastromarco, M., Matteucci, F., Mauger, E. A., Mendoza, E., Mengoni, A., Milazzo, P. M., Mingrone, F., Mirea, M., Montesano, S., Musumarra, A., Nolte, R., Oprea, A., Patronis, N., Pavlik, A., Perkowski, J., Porras, J. I., Praena, J., Quesada, J. M., Rajeev, K., Rauscher, T., Reifarh, R., Riego-Perez, A., Robles, M. S., C. Rout, P., Rubbia, C., Ryan, J. A., Sabaté-Gilarte, M., Saxena, A. K., Schillebeeckx, P., Schmidt, S. M., Schumann, D., Sedyshev, P., Smith, A. G., Stamatopoulos, A., Tagliente, G., Tain, J. L., Tarifeño-Saldivia, A., Tsinganis, A., Valenta, S., Vannini, G., Variale, V., Vaz, P., Ventura, A., Vlachoudis, V., Vlastou, R., Wallner, A., Warren, S., Weigand, M., Weiss, C., Wolf, C. R., Woods, P. J., Wright, T. & Ugec, P., 13 Sept 2017, *ND 2016: International Conference on Nuclear Data for Science and Technology*. EDP Sciences, Vol. 146. 03020

Dissemination of data measured at the CERN n-TOF facility

Dupont, E., Otuka, N., Cabellos, O., Aberle, O., Aerts, G., Altstadt, S., Alvarez-Pol, H., Alvarez-Velarde, F., Andriamonje, S., Andrzejewski, J., Audouin, L., Bacak, M., Badurek, G., Balibrea-Correa, J., Barbagallo, M., Barros, S., Baumann, P., Bécaries, V., Bečvář, F. & Beinrucker, C. & 208 others, Belloni, F., Berthier, B., Berthoumieux, E., Billowes, J., Boccone, V., Bosnar, D., Brown, A., Brugger, M., Caamaño, M., Calviani, M., Calviño, F., Cano-Ott, D., Capote, R., Cardella, R., Carrapiço, C., Casanovas, A., Castelluccio, D. M., Cennini, P., Cerutti, F., Chen, Y. H., Chiaveri, E., Chin, J. M., Colonna, N., Cortés, G., Cortés-Giraldo, M. A., Cosentino, L., Couture, A., Cox, M. J., Damone, L. A., David, S., Deo, K., Diakaki, M., Dillmann, I., Domingo-Pardo, C., Dressler, R., Dridi, W., Duran, I., Eleftheriadis, C., Embid-Segura, M., Fernández-Domínguez, B., Ferrant, L., Ferrari, A. C., Ferreira, P. R., Finocchiaro, P., Fraval, K., Frost, R. J. W., Fujii, K., Furman, W., Ganesan, S., Rodríguez-García, A., Gawlik, A., Gheorghie, I., Gilardoni, S., Giubrone, G., Glodariu, T., Göbel, K., Gomez-Hornillos, M. B., Goncalves, I. F., Gonzalez-Romero, E., Goverdovski, A., Gramigna, F., Griesmayer, E., Guerrero, C., Günsing, F., Gurusamy, P., Haight, R., Harada, H., Heftrich, T., Heil, M., Heinitz, S., Hernández-Prieto, A., Heyse, J., Igashira, M., Isaev, S., Jenkins, D. G., Jericha, E., Kadi, Y., Kaeppler, F., Kalamara, A., Karadimos, D., Karamanis, D., Katabuchi, T., Kavrigin, P., Kerveno, M., Ketlerov, V., Khryachkov, V., Kimura, A., Kivel, N., Kokkoris, M., Kononov, V., Krtička, M., Kroll, J., Kurtulgil, D., Lampoudis, C., Langer, C., Leal-Cidoncha, E., Lederer, C., Leeb, H., Naour, C. L., Leredegui-Marco, J., Leong, L. S., Licata, M., Lo Meo, S., Lonsdale, S. J., Losito, R., Lozano, M., Macina, D., Manousos, A., Marganec, J., Martinez, T., Marrone, S., Masi, A., Massimi, C., Mastinu, P. F., Mastromarco, M., Matteucci, F., Mauger, E. A., Mazzone, A., Mendoza, E., Mengoni, A., Milazzo, P. M., Mingrone, F., Mirea, M., Mondelaers, W., Montesano, S., Moreau, C., Mosconi, M., Musumarra, A., Negret, A., Nolte, R., O'Brien, S., Oprea, A., Palomo-Pinto, F. R., Pancin, J., Paradela, C., Patronis, N., Pavlik, A., Pavlopoulos, P., Perkowski, J., Perrot, L., Pigni, M. T., Plag, R., Plompen, A., Plukis, L., Poch, A., Porras, J., Praena, J., Pretel, C., Quesada, J. M., Radeck, D., Rajeev, K., Rauscher, T., Reifarh, R., Riego, A., Robles, M. S., Roman, F., C. Rout, P., Rudolf, G., Rubbia, C., Rullhusen, P., Ryan, J. A., Sabaté-Gilarte, M., Salgado, J., Santos-Lang, C., Sarchiapone, L., Sarmento, R., Saxena, A. K., Schillebeeckx, P., Schmidt, S. M.,

Schumann, D., Sedyshev, P., Smith, A. G., Sosnin, N. V., Stamatopoulos, A., Stephan, C., Suryanarayana, S. V., Tagliente, G., Tain, J. L., Tarifeño-Saldivia, A., Tarrío, D., Tassan-Got, L., Tavora, L., Terlizzi, R., Tsinganis, A., Valenta, S., Vannini, G., Variale, V., Vaz, P., Ventura, A., Versaci, R., Vermeulen, M. J., Villamarin, D., Vicente, M. C., Vlachoudis, V., Vlastou, R., Voss, F., Wallner, A., Walter, T. S., Ware, T., Warren, S., Weigand, M., Weiß, C., Wolf, C. R., Wiesher, M., Wisshak, K., Woods, P. J., Wright, T. & Ž Ugec, P., 13 Sept 2017, *ND 2016: International Conference on Nuclear Data for Science and Technology*. EDP Sciences, Vol. 146. 07002

High accuracy $^{234}\text{U}(n,f)$ cross section in the resonance energy region

Leal-Cidoncha, E., Durán, I., Paradelo, C., Tassan-Got, L., Audouin, L., Leal, L. C., Naour, C. L., Noguere, G., Tarrío, D., Leong, L. S., Altstadt, S., Andrzejewski, J., Barbagallo, M., Bécares, V., Bečvář, F., Belloni, F., Berthoumieux, E., Billowes, J., Boccone, V. & Bosnar, D. & 91 others, Brugger, M., Calviani, M., Calviño, F., Cano-Ott, D., Carrapiço, C., Cerutti, F., Chiaveri, E., Chin, J. M., Colonna, N., Cortés, G., Cortés-Giraldo, M. A., Diakaki, M., Domingo-Pardo, C., Dressler, R., Eleftheriadis, C., Ferrari, A. C., Fraval, K., Ganesan, S., García, A. R., Giubrone, G., Gómez-Hornillos, M. B., Gonçalves, I. F., González-Romero, E., Griesmayer, E., Guerrero, C., Günsing, F., Gurusamy, P., Hernández-Prieto, A., Jenkins, D. G., Jericha, E., Kadi, Y., Käppeler, F., Karadimos, D., Kivel, N., Kokkoris, M., Krtička, M., Kroll, J., Lampoudis, C., Langer, C., Lederer, C., Leeb, H., Losito, R., Mallick, A., Manousos, A., Marganec, J., Martínez, T., Massimi, C., Mastinu, P. F., Mastromarco, M., Meaze, M., Mendoza, E., Mengoni, A., Milazzo, P. M., Mingrone, F., Mirea, M., Mondelaers, W., Pavlik, A., Perkowski, J., Plompen, A., Praena, J., Quesada, J. M., Rauscher, T., Reifarth, R., Riego, A., Robles, M. S., Roman, F., Rubbia, C., Sabaté-Gilarte, M., Sarmiento, R., Saxena, A. K., Schillebeeckx, P., Schmidt, S. M., Schumann, D., Tagliente, G., Tain, J. L., Tsinganis, A., Valenta, S., Vannini, G., Variale, V., Vaz, P., Ventura, A., Versaci, R., Vermeulen, M. J., Vlachoudis, V., Vlastou, R., Wallner, A., Ware, T., Weigand, M., Weiß, C., Wright, T. & Ugec, P., 13 Sept 2017, *ND 2016: International Conference on Nuclear Data for Science and Technology*. EDP Sciences, Vol. 146. 04057

High precision measurement of the radiative capture cross section of ^{238}U at the n-TOF CERN facility

Mingrone, F., Altstadt, S., Andrzejewski, J., Audouin, L., Bécares, V., Barbagallo, M., Bečvář, F., Belloni, F., Berthoumieux, E., Billowes, J., Boccone, V., Bosnar, D., Brugger, M., Calviño, F., Calviani, M., Cano-Ott, D., Carrapiço, C., Cerutti, F., Chiaveri, E. & Chin, J. M. & 97 others, Colonna, N., Cortés, G., Cortés-Giraldo, M. A., Diakaki, M., Domingo-Pardo, C., Dressler, R., Durán, I., Eleftheriadis, C., Ferrari, A. C., Fraval, K., Furman, V., Göbel, K., Gómez-Hornillos, M. B., Ganesan, S., García, A. R., Giubrone, G., Gonçalves, I. F., González-Romero, E., Goverdovski, A., Griesmayer, E., Guerrero, C., Günsing, F., Heftrich, T., Hernández-Prieto, A., Heyse, J., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Karadimos, D., Katabuchi, T., Ketlerov, V., Khryachkov, V., Kivel, N., Koehler, P., Kokkoris, M., Kroll, J., Krtička, M., Lampoudis, C., Langer, C., Leal-Cidoncha, E., Lederer, C., Leeb, H., Leong, L. S., Leredegui-Marco, J., Losito, R., Mallick, A., Manousos, A., Marganec, J., Martínez, T., Massimi, C., Mastinu, P. F., Mastromarco, M., Mendoza, E., Mengoni, A., Milazzo, P. M., Mirea, M., Mondelaers, W., Paradelo, C., Pavlik, A., Perkowski, J., Plompen, A. J. M., Praena, J., Quesada, J. M., Rauscher, T., Reifarth, R., Riego-Perez, A., Robles, M. S., Rubbia, C., Ryan, J. A., Sabaté-Gilarte, M., Sarmiento, R., Saxena, A. K., Schillebeeckx, P., Schmidt, S. M., Schumann, D., Sedyshev, P., Tagliente, G., Tain, J. L., Tarifeño-Saldivia, A., Tarrío, D., Tassan-Got, L., Tsinganis, A., Valenta, S., Vannini, G., Variale, V., Vaz, P., Ventura, A., Vermeulen, M. J., Vlachoudis, V., Vlastou, R., Wallner, A., Ware, T., Weigand, M., Weiss, C., Wright, T. & Ž Ugec, P., 13 Sept 2017, *ND 2016: International Conference on Nuclear Data for Science and Technology*. EDP Sciences, Vol. 146. 11028

Measurement of the $^{240}\text{Pu}(n,f)$ cross-section at the CERN n-TOF facility: First results from experimental area II (EAR-2)

Stamatopoulos, A., Tsinganis, A., Colonna, N., Vlastou, R., Kokkoris, M., Schillebeeckx, P., Plompen, A., Heyse, J., Ugec, P., Barbagallo, M., Calviani, M., Berthoumieux, E., Chiaveri, E., Aberle, O., Andrzejewski, J., Audouin, L., Bécares, V., Bacak, M., Balibrea-Correa, J. & Barros, S. & 111 others, Bečvář, F., Beinrucker, C., Belloni, F., Billowes, J., Boccone, V., Bosnar, D., Brugger, M., Caamaño, M., Calviño, F., Cano-Ott, D., Cerutti, F., Cortés, G., Cortés-Giraldo, M. A., Cosentino, L., Damone, L. A., Deo, K., Diakaki, M., Domingo-Pardo, C., Dressler, R., Dupont, E., Durán, I., Fernández-Domínguez, B., Ferrari, A. C., Ferreira, P. R., Finocchiaro, P., Frost, R. J. W., Furman, V., Göbel, K., Gómez-Hornillos, M. B., García, A. R., Gheorghe, I., Glodariu, T., Gonçalves, I. F., González-Romero, E., Goverdovski, A., Griesmayer, E., Guerrero, C., Günsing, F., Harada, H., Heftrich, T., Heinitz, S., Hernández-Prieto, A., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Katabuchi, T., Kavragin, P., Ketlerov, V., Khryachkov, V., Kimura, A., Kivel, N., Krtička, M., Leal-Cidoncha, E., Lederer, C., Leeb, H., Leredegui-Marco, J., Licata, M., Lo Meo, S., Losito, R., Macina, D., Marganec, J., Martínez, T., Massimi, C., Mastinu, P. F., Mastromarco, M., Matteucci, F., Mendoza, E., Mengoni, A., Milazzo, P. M., Mingrone, F., Mirea, M., Montesano, S., Musumarra, A., Nolte, R., Palomo-Pinto, F. R., Paradelo, C., Patronis, N., Pavlik, A., Perkowski, J., Porras, J. I., Praena, J., Quesada, J. M., Rauscher, T., Reifarth, R., Riego-Perez, A., Robles, M. S., Rubbia, C., Ryan, J. A., Sabaté-Gilarte, M., Saxena, A. K., Schmidt, S. M., Schumann, D., Sedyshev, P., Smith, A. G., Suryanarayana, S. V., Tagliente, G., Tain, J. L., Tarifeño-Saldivia, A., Tassan-Got, L., Valenta, S., Vannini, G., Variale, V., Vaz, P., Ventura, A., Vlachoudis, V., Wallner, A., Warren, S., Weigand, M., Weiss, C. & Wright, T., 13 Sept 2017, *ND 2016: International Conference on Nuclear Data for Science and Technology*. EDP Sciences, Vol. 146. 04030

Measurement of the ^{241}Am neutron capture cross section at the n-TOF facility at CERN

Mendoza, E., Cano-Ott, D., Altstadt, S., Andriamonje, S., Andrzejewski, J., Audouin, L., Balibrea-Correa, J., Bécares, V., Barbagallo, M., Bečvář, F., Belloni, F., Berthier, B., Berthoumieux, E., Billowes, J., Boccone, V., Bosnar, D., Brugger, M., Calviño, F., Calviani, M. & Carrapiço, C. & 105 others, Cerutti, F., Chiaveri, E., Chin, J. M., Colonna, N., Cortés, G.,

Cortés-Giraldo, M. A., Diakaki, M., Dillmann, I., Domingo-Pardo, C., Durán, I., Dzysiuk, N., Eleftheriadis, C., Fernández-Ordóñez, M., Ferrari, A. C., Fraval, K., Furman, V., Gómez-Hornillos, M. B., Ganesan, S., García, A. R., Giubrone, G., Gonçalves, I. F., González-Romero, E., Goverdovski, A., Gramegna, F., Griesmayer, E., Guerrero, C., Gunsing, F., Gurusamy, P., Heftrich, T., Heinitz, S., Hernández-Prieto, A., Heyse, J., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Karadimos, D., Katabuchi, T., Ketlerov, V., Khryachkov, V., Koehler, P., Kokkoris, M., Kroll, J., Krtička, M., Lampoudis, C., Langer, C., Leal-Cidoncha, E., Lederer, C., Leeb, H., Leong, L. S., Lerendegui-Marco, J., Licata, M., Losito, R., Manousos, A., Marganec, J., Martínez, T., Massimi, C., Mastinu, P. F., Mastromarco, M., Mengoni, A., Milazzo, P. M., Mingrone, F., Mirea, M., Mondelaers, W., Paradela, C., Pavlik, A., Perkowski, J., Plompen, A. J. M., Praena, J., Quesada, J. M., Rauscher, T., Reifarh, R., Riego-Perez, A., Robles, M. S., Roman, F., Rubbia, C., Ryan, J. A., Sabaté-Gilarte, M., Sarmiento, R., Saxena, A. K., Schillebeeckx, P., Schmidt, S. M., Schumann, D., Sedyshev, P., Tagliente, G., Tain, J. L., Tarifeño-Saldivia, A., Tarrío, D., Tassan-Got, L., Tsinganis, A., Valenta, S., Vannini, G., Variale, V., Vaz, P., Ventura, A., Vermeulen, M. J., Versaci, R., Vlachoudis, V., Vlastou, R., Wallner, A., Ware, T., Weigand, M., Weiss, C., Wright, T. & Žugec, P., 13 Sept 2017, *ND 2016: International Conference on Nuclear Data for Science and Technology*. EDP Sciences, Vol. 146. 11022

Measurement of the neutron capture cross section of the fissile isotope ^{235}U with the CERN n-TOF total absorption calorimeter and a fission tagging based on micromegas detectors

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Monte carlo simulations of the n-TOF lead spallation target with the Geant4 toolkit: A benchmark study

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New measurement of the $^{242}\text{Pu}(n,\gamma)$ cross section at n-TOF-EAR1 for MOX fuels: Preliminary results in the RRR

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The n-TOF facility: Neutron beams for challenging future measurements at CERN

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Time-of-flight and activation experiments on ^{147}Pm and ^{171}Tm for astrophysics

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Flexible silicon-based alpha-particle detector

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Chiara, C. J., Asztalos, S. J., Busse, B., Clark, R. M., Cromaz, M., Deleplanque, M. A., Diamond, R. M., Fallon, P., Fossan, D. B., Jenkins, D. G., Juutinen, S., Kelsall, N. S., Krucken, R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O., MacLeod, R. W., Schmid, G., Sears, J. M. & Smith, J. F. & 4 others, Stephens, F. S., Vetter, K., Wadsworth, R. & Frauendorf, S., Mar 2000, In: Physical Review C. 61, 3, p. - 11 p., 034318.

Evidence for Shears Bands in [Formula Presented]

Kelsall, N. S., Wadsworth, R., Asztalos, S. J., Busse, B., Chiara, C. J., Clark, R. M., Deleplanque, M. A., Diamond, R. M., Fallon, P., Fossan, D. B., Jenkins, D. G., Juutinen, S., Krucken, R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O., Parry, C. M., Schmid, G. J., Sears, J. M. & Smith, J. F. & 3 others, Stephens, F. S., Vetter, K. & Frauendorf, S. G., 1 Jan 2000, In: Physical Review C - Nuclear Physics. 61, 1, 1 p.

Evidence for shears bands in ^{108}Cd

Kelsall, N. S., Wadsworth, R., Asztalos, S. J., Busse, B., Chiara, C. J., Clark, R. M., Deleplanque, M. A., Diamond, R. M., Fallon, P., Fossan, D. B., Jenkins, D. G., Juutinen, S., Krücken, R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O., Parry, C. M., Schmid, G. J., Sears, J. M. & Smith, J. F. & 3 others, Stephens, F. S., Vetter, K. & Frauendorf, S. G., 1 Jan 2000, In: Physical Review C - Nuclear Physics. 61, 1, p. 113011-113015 5 p., 011301.

First observation of excited states in ^{182}Pb

Jenkins, D. G., Muikku, M., Greenlees, P. T., Hauschild, K., Helariutta, K., Jones, P. M., Julin, R., Juutinen, S., Kankaanpää, H., Kelsall, N. S., Kettunen, H., Kuusiniemi, P., Leino, M., Moore, C. J., Nieminen, P., O'Leary, C. D., Page, R. D., Rakhila, P., Reviol, W. & Taylor, M. J. & 2 others, Uusitalo, J. & Wadsworth, R., 1 Jan 2000, In: Physical Review C - Nuclear Physics. 62, 2, p. 213021-213024 4 p., 021302.

First observation of excited states in [Formula Presented]

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Prolate yrast cascade in ^{183}Tl

Reviol, W., Carpenter, M. P., Janssens, R. V. F., Jenkins, D., Toth, K. S., Bingham, C. R., Riedinger, L. L., Weintraub, W., Cizewski, J. A., Lauritsen, T., Seweryniak, D., Uusitalo, J., Wiedenhöver, I., Wadsworth, R., Wilson, A. N., Gross, C. J., Batchelder, J. C., Helariutta, K. & Juutinen, S., 1 Jan 2000, In: Physical Review C - Nuclear Physics. 61, 4, p. 443101-443107 7 p., 044310.

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Reviol, W., Carpenter, M. P., Janssens, R. V. F., Jenkins, D., Toth, K. S., Bingham, C. R., Riedinger, L. L., Weintraub, W., Cizewski, J. A., Lauritsen, T., Seweryniak, D., Uusitalo, J., Wiedenhöver, I., Wadsworth, R., Wilson, A. N., Gross, C. J., Batchelder, J. C., Helariutta, K. & Juutinen, S., 1 Jan 2000, In: Physical Review C - Nuclear Physics. 61, 4, 1 p.

Shears mechanism in ^{109}Cd

Chiara, C. J., Asztalos, S. J., Busse, B., Clark, R. M., Cromaz, M., Deleplanque, M. A., Diamond, R. M., Fallon, P., Fossan, D. B., Jenkins, D. G., Juutinen, S., Kelsall, N. S., Krücken, R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O., MacLeod, R. W., Schmid, G., Sears, J. M. & Smith, J. F. & 4 others, Stephens, F. S., Vetter, K., Wadsworth, R. & Frauendorf, S., 1 Jan 2000, In: Physical Review C - Nuclear Physics. 61, 3, p. 343181-3431811 3088631 p., 034318.

Shears mechanism in [Formula Presented]

Chiara, C. J., Asztalos, S. J., Busse, B., Clark, R. M., Cromaz, M., Deleplanque, M. A., Diamond, R. M., Fallon, P., Fossan, D. B., Jenkins, D. G., Juutinen, S., Kelsall, N. S., Krücken, R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O., MacLeod, R. W., Schmid, G., Sears, J. M. & Smith, J. F. & 4 others, Stephens, F. S., Vetter, K., Wadsworth, R. & Frauendorf, S., 1 Jan 2000, In: Physical Review C - Nuclear Physics. 61, 3, 1 p.

Very high rotational frequencies and band termination in [Formula Presented]

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Clark, R. M., Wilson, J. N., Appelbe, D., Carpenter, M. P., Chiara, C. J., Cromaz, M., Deleplanque, M. A., Devlin, M., Diamond, R. M., Fallon, P., Fossan, D. B., Janssens, R. V. F., Jenkins, D. G., Kelsall, N., Koike, T., LaFosse, D. R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O. & Sarantites, D. G. & 10 others, Seweryniak, D., Starosta, K., Stephens, F. S., Svensson, C. E., Vetter, K., Wadsworth, R., Waddington, J. C., Ward, D., Wiedenhöver, I. & Alex Brown, B., 1 Jan 2000, In: Physical Review C - Nuclear Physics. 61, 4, p. 443111-443116 6 p., 044311.

Evidence for shears bands in Cd-108

Kelsall, N. S., Wadsworth, R., Asztalos, S. J., Busse, B., Chiara, C. J., Clark, R. M., Deleplanque, M. A., Diamond, R. M., Fallon, P., Fossan, D. B., Jenkins, D. G., Juutinen, S., Krücken, R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O., Parry, C.

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Evidence for magnetic rotation in the light tin region

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Superdeformation and prolate-oblate competition in Tl nuclei

Reviol, W., Riedinger, L. L., Smith, B. H., Bingham, C. R., Weintraub, W., Carpenter, M. P., Janssens, R. V. F., Fischer, S. M., Nisius, D., Seweryniak, D., Jenkins, D., Wadsworth, R., Wilson, A. N. & Moore, E. F., 1 Dec 1999, In: *Acta Physica Polonica B*. 30, 3, p. 723-732 10 p.

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Shears mechanism in the A similar to 110 region

Clark, R. M., Asztalos, S. J., Busse, B., Chiara, C. J., Cromaz, M., Deleplanque, M. A., Diamond, R. M., Fallon, P., Fossan, D. B., Jenkins, D. G., Juutinen, S., Kelsall, N., Krucken, R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O., MacLeod, R. W., Schmid, G., Sears, J. M. & Smith, J. F. & 4 others, Stephens, F. S., Vetter, K., Wadsworth, R. & Frauendorf, S., 19 Apr 1999, In: *Physical Review Letters*. 82, 16, p. 3220-3223 4 p.

The EUROBALL neutron wall - design and performance tests of neutron detectors

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Confirmation of magnetic rotation in the a similar to 110 region

Jenkins, D. G., Wadsworth, R., Cameron, J. A., Clark, R. M., Fossan, D. B., Hibbert, I. M., Janzen, V. P., Krucken, R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O., Parry, C. M., Sears, J. M., Smith, J. F. & Frauendorf, S., 1999, *EXPERIMENTAL NUCLEAR PHYSICS IN EUROPE*. Rubio, B., Lozano, M. & Gelletly, W. (eds.). MELVILLE: American Institute of Physics, p. 221-224 4 p.

The shears mechanism in the lead isotopes

Clark, R. M., Kruchen, R., Asztalos, S. J., Becker, J. A., Busse, B., Chmel, S., Deleplanque, M. A., Diamond, R. M., Fallon, P., Jenkins, D., Hauschild, K., Hibbert, I. M., Hubel, H., Lee, I. Y., Macchiavelli, A. O., MacLeod, R. W., Schmid, G., Stephens, F. S., van Severen, U. J. & Vetter, K. & 2 others, Wadsworth, R. & Wan, S., 19 Nov 1998, In: *Physics Letters B*. 440, 3-4, p. 251-256 6 p.

Magnetic rotational bands in Sb-108

Jenkins, D. G., Wadsworth, R., Cameron, J., Clark, R. M., Fossan, D. B., Hibbert, I. M., Janzen, V. P., Krucken, R., Lane, G. J., Lee, I. Y., Macchiavelli, A. O., Parry, C. M., Sears, J. M., Smith, J. F. & Frauendorf, S., Nov 1998, In: *Physical Review C*. 58, 5, p. 2703-2709 7 p.

Magnetic rotation in Sn-106 and Sn-108

Jenkins, D. G., Hibbert, I. M., Parry, C. M., Wadsworth, R., Fossan, D. B., Lane, G. J., Sears, J. M., Smith, J. F., Clark, R. M., Krucken, R., Lee, I. Y., Macchiavelli, A. O., Janzen, V. P., Cameron, J. & Frauendorf, S., 28 May 1998, In: *Physics Letters B*. 428, 1-2, p. 23-30 8 p.

First observation of excited states in ¹⁸⁴Pb: Spectroscopy beyond the neutron mid-shell

Cocks, J. F. C., Muikku, M., Korten, W., Wadsworth, R., Chmel, S., Domscheit, J., Greenlees, P. T., Helariutta, K., Hibbert, I., Houry, M., Jenkins, D., Jones, P., Julin, R., Juutinen, S., Kankaanpää, H., Kettunen, H., Kuusiniemi, P., Leino, M., Le Coz, Y. & Lucas, R. & 4 others, Mergel, E., Page, R. D., Savelius, A. & Trzaska, W., 1 Jan 1998, In: *European Physical*

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IMMUNOAFFINITY CONCENTRATION OF HUMAN LUNG DNA-ADDUCTS USING AN ANTI-BENZO[A]PYRENE-DIOL-EPOXIDE-DNA ANTIBODY - ANALYSIS BY P-32 POSTLABELING OR ELISA

King, M. M., Cuzick, J., Jenkins, D., Routledge, M. N. & Garner, R. C., Oct 1993, In: Mutation research. 292, 2, p. 113-122 10 p.

GAINFUL PURSUITS - THE MAKING OF INDUSTRIAL EUROPE, 1600-1914 - GOODMAN,J, HONEYMAN,K

Jenkins, D. T., Jan 1990, In: Business History. 32, 1, p. 111-112 2 p.

Activities

Stars, shapes and clusters

Jenkins, D. (Chair)

4 Oct 2023

Consultancy on novel radiation detectors

Jenkins, D. (Advisor)

27 May 2023 → 30 Jun 2024

Stars, shapes and clusters

Jenkins, D. (Invited speaker)

17 May 2023

Stars, shapes and clusters

Jenkins, D. (Invited speaker)

3 May 2023

Equality and Diversity in Physics from a UK perspective

Jenkins, D. (Chair)

10 Jun 2021

Fusion in massive stars: Pushing the 12C+12C reaction to the limits

Jenkins, D. (Chair)

9 Jun 2021

Radiation detectors for industrial and medical applications

Jenkins, D. (Keynote/plenary speaker)

14 Nov 2020

Fusion in massive stars

Jenkins, D. (Keynote/plenary speaker)

11 Sept 2019

Fusion in massive stars: Pushing the 12C+12C reaction to the limits with STELLA

Jenkins, D. (Speaker)

13 May 2019 → 17 May 2019

University of the Western Cape

Jenkins, D. (Advisor)

11 Mar 2019 → 15 Mar 2019

Flexible silicon detectors for alpha particle detection

Jenkins, D. (Speaker)

13 Nov 2018

Nuclear applications

Jenkins, D. (Chair)
8 Oct 2018 → 12 Oct 2018

Fusion in massive stars: Pushing the 12C+12C cross-section to the limits with the STELLA experiment at IPN Orsay

Jenkins, D. (Invited speaker)
5 Sept 2018

Fusion in massive stars: Pushing the 12C+12C cross-section to the limits with the STELLA experiment at IPN Orsay

Jenkins, D. (Invited speaker)
5 Jun 2018

Nuclear data consultancy

Jenkins, D. (Consultant)
1 Jun 2017 → 30 May 2019

Isospin non-conserving forces

Jenkins, D. (Invited speaker)
16 May 2017

IOP Publishing (Publisher)

Jenkins, D. (Editor)
1 Mar 2017 → ...

Isospin non-conserving forces in nuclei studied through triplet energy differences

Jenkins, D. (Speaker)
15 Sept 2016

Next generation gamma-ray detectors for nuclear physics based on large scintillators coupled to silicon photomultipliers

Jenkins, D. (Speaker)
12 May 2016

Novel scintillator detectors for nuclear physics and applications

Jenkins, D. (Speaker)
17 Sept 2015

Isospin conserving forces in nuclei studied through triplet energy differences

Jenkins, D. (Speaker)
8 Jul 2015

Isospin non-conserving forces probed through studies of isospin triplets

Jenkins, D. (Speaker)
16 Jun 2015

SCIENCE & TECHNOLOGY FACILITIES COUNCIL (STFC) (External organisation)

Jenkins, D. (Member)
1 Jan 2015 → 1 Jan 2017

Invited lecture series at Tastes of Nuclear Physics

Jenkins, D. (Invited speaker)
4 Nov 2014 → 6 Nov 2014

Invited Colloquium

Jenkins, D. (Invited speaker)
21 Oct 2014

Invited lecture series at SERC School on Nuclear Physics

Jenkins, D. (Invited speaker)
20 Oct 2014 → 24 Oct 2014

India-UK Seminar on nuclear physics with ISOLDE

Jenkins, D. (Organiser)
22 Jan 2014 → 24 Jan 2014

Workshop on large arrays of novel scintillators

Jenkins, D. (Organiser)
15 Jan 2014 → 16 Jan 2014

CERN academic lecture series

Jenkins, D. (Invited speaker)
29 May 2013 → 31 May 2013

Research seminar

Jenkins, D. (Invited speaker)
9 May 2013

iThemba LABS

Jenkins, D. (Researcher)
20 Apr 2013 → 15 May 2013

IOP Nuclear Physics Conference

Jenkins, D. (Chair)
8 Apr 2013 → 10 Apr 2013

ICRTNP-12

Jenkins, D. (Invited speaker)
19 Nov 2012

Cluster 2012

Jenkins, D. (Invited speaker)
25 Sept 2012

CAARI 2012

Jenkins, D. (Invited speaker)
8 Aug 2012

Prizes**Fellow of University of Strasbourg Institute of Advanced Studies**

Jenkins, D. (Recipient), 1 Jan 2014

Rutherford Medal and Prize

Jenkins, D. (Recipient), 16 Oct 2023

Awards

Frugal Innovation for Societally-Important Challenges in Africa

Jenkins, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC): £249,317.71

1/02/25 → 31/01/27

Projects

202Rn experiment

Jenkins, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)

20/08/10 → 19/11/10

3D radioactive scanning system (3D-RSS)

Jenkins, D. (Principal investigator) & Post, M. A. (Co-investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)

1/01/23 → 31/12/23

Costed Extension to R21144 MANDELA

Jenkins, D. (Principal investigator), Bashkanov, M. (Co-investigator) & Watts, D. (Co-investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)

1/04/22 → 31/03/23

Development of a segmented LaBr₃(Ce)-detector module to improve nuclear data collection - An exploitation of Compton events for better identification of low-energy low-intensity peaks in the energy spectra

Jenkins, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)

1/10/21 → 31/12/21

ENSAR 2

Jenkins, D. (Principal investigator)

EUROPEAN COMMISSION

1/03/16 → 31/08/21

EPSRC IAA: Knowledge transfer on nuclear isomers to AWE

Jenkins, D. (Principal investigator)

EPSRC

1/04/21 → 30/06/21

EPSRC IAA: Colour neutron tomography

Jenkins, D. (Principal investigator)

EPSRC

7/10/19 → 31/03/20

Exploring shape co-existence in 202, 204Rn

Jenkins, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)

26/04/10 → 25/08/10

FRIB Accelerated-beams for Understanding Science and Technology

Jenkins, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)

1/01/24 → 31/12/27

Frugal Innovation for Societally-Important Challenges in Africa

Jenkins, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)

1/02/25 → 31/01/27

Gamma detection with new advanced scintillators

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/11/11 → 31/10/14

Gr/R75526

Jenkins, D. (Principal investigator)
EPSRC
1/10/02 → 30/09/07

High-Performance Portable Isotope Identification

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/06/14 → 31/05/15

India-UK Seminar on Physics at ISOLDE

Jenkins, D. (Principal investigator)
THE ROYAL SOCIETY
6/12/13 → 31/01/14

Inelastic proton scattering of ^{21}Na in inverse kinematics

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
17/12/08 → 16/03/09

MeVQE: A World-leading Centre for MeV Scale Entanglement Physics

Watts, D. (Principal investigator), Bashkanov, M. (Co-investigator), D'Amico, I. (Co-investigator), Dobaczewski, J. J. (Co-investigator), Jenkins, D. (Co-investigator) & Zachariou, N. (Co-investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/09/22 → 31/08/24

Mirror Nuclei studied at NSCL (Michigan) using mirrored direct knockout

Bentley, M. (Principal investigator), Davies, P. J. (Co-investigator), Jenkins, D. (Co-investigator), Wadsworth, R. (Co-investigator), Henry, T. W. (Student), Milne, S. A. (Student), Scruton, L. M. (Student), Diget, C. A. (Co-investigator) & Nichols, A. J. (Student)
1/05/07 → ...

Modern African Nuclear Detector Laboratory

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/04/19 → 31/03/22

NUTRAIN: Translating nuclear applications from University of York to University of Western Cape and University of Zululand

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/01/18 → 31/12/18

New generation nuclear detectors for use in well logging

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
30/07/14 → 29/09/15

Nuclear Astrophysics with Gammasphere & REX-ISOLDE

Jenkins, D. (Principal investigator)

EPSRC
2/05/05 → 1/11/07

Nuclear Data Fission Yields, Decay Heat & Neutron Reaction Cross Sections

Jenkins, D. (Principal investigator)

EPSRC
1/10/10 → 31/12/14

Nuclear Physics Consolidated Grant

Wadsworth, R. (Principal investigator), Wadsworth, R. (Principal investigator), Andreyev, A. (Co-investigator), Andreyev, A. (Co-investigator), Barton, C. J. (Co-investigator), Diget, C. A. (Co-investigator), Diget, C. A. (Co-investigator), Fulton, B. R. (Co-investigator), Fulton, B. R. (Co-investigator), Jenkins, D. (Co-investigator), Jenkins, D. (Co-investigator), Laird, A. M. (Co-investigator) & Laird, A. M. (Co-investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/08/14 → 30/09/18

Nuclear Physics Consolidated Grant

Jenkins, D. (Principal investigator), Andreyev, A. (Co-investigator), Bentley, M. (Co-investigator), Diget, C. A. (Co-investigator), Dobaczewski, J. J. (Co-investigator), Fulton, B. R. (Co-investigator), Laird, A. M. (Co-investigator), Paschalis, S. (Co-investigator), Pastore, A. (Co-investigator), Petri, M. (Co-investigator) & Wadsworth, R. (Co-investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/10/17 → 30/09/22

Nuclear Physics Consolidated Grant 2021-2024

Jenkins, D. (Principal investigator), Andreyev, A. (Co-investigator), Bashkanov, M. (Co-investigator), Bentley, M. (Co-investigator), Dobaczewski, J. J. (Co-investigator), Laird, A. M. (Co-investigator), Paschalis, S. (Co-investigator), Pastore, A. (Co-investigator), Petri, M. (Co-investigator), Wadsworth, R. (Co-investigator), Watts, D. (Co-investigator) & Zachariou, N. (Co-investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/10/21 → 31/03/25

Nuclear Physics Consolidated Grant 2024-2027

Jenkins, D. (Principal investigator), Andreyev, A. (Co-investigator), Bashkanov, M. (Co-investigator), Bentley, M. (Co-investigator), Diget, C. A. (Co-investigator), Dobaczewski, J. J. (Co-investigator), Laird, A. M. (Co-investigator), Paschalis, S. (Co-investigator), Petri, M. (Co-investigator), Wadsworth, R. (Co-investigator), Watts, D. (Co-investigator) & Zachariou, N. (Co-investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/10/24 → 30/09/27

Position reconstruction of gamma-ray interaction in scintillator crystals

Paschalis, S. (Principal investigator) & Jenkins, D. (Co-investigator)

1/02/17 → 1/02/19

Position reconstruction of gamma-ray interaction in scintillator crystals

Paschalis, S. (Principal investigator) & Jenkins, D. (Co-investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/02/17 → 31/01/19

Precision tests of the nuclear wavefunction using

Jenkins, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/08/07 → 31/07/09

Public Engagement for Nuclear Science

Jenkins, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/10/07 → 30/09/09

RADCASE: Functional materials for radiation detection

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
13/09/21 → 12/09/22

RPF 13/14 Digital data acquisition for nuclear physics

Jenkins, D. (Principal investigator)
1/08/13 → 1/08/14

Real Time Miniaturised in situ Blood Counting System for PET Preclinical Studies

Paschalis, S. (Principal investigator) & Jenkins, D. (Principal investigator)
1/01/17 → 30/11/17

Real Time Miniaturised in Situ Blood Counting System for PET Preclinical Studies

Paschalis, S. (Principal investigator) & Jenkins, D. (Co-investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/01/17 → 30/11/17

Recoil Decay Tagging of ^{180}Pb

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
6/04/09 → 5/10/09

STFC IAA: Colour neutron tomography

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/08/20 → 31/03/21

STFC Institutional Sponsorship 2021/22: International Partnerships

Thompson, S. M. (Principal investigator), Emberson, L. D. (Co-investigator) & Jenkins, D. (Co-investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/09/21 → 31/03/22

Single atom imaging

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/10/12 → 31/03/13

Two photon experiment

Jenkins, D. (Principal investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
20/08/10 → 20/11/10