

Prof. DAVID JENKINS
Professor
Physics
Email: david.jenkins@york.ac.uk
Phone: (01904) 322248



Research interests

Experimental nuclear physics

Research interests

Nuclear applications and detector development

Research outputs

Discovery of an $I^{\pi}=10^{+}$ Isomer in ^{150}Yb : Nature of the Longest 10^{+} Isomeric Chain

Zhang, W. Q., Liu, Z., Andreyev, A. N., Yu, Y. X., Fu, G. J., Qi, C., Huang, H., Yu, X. H., Walker, P. M., Zhou, X. H., Greenlees, P. T., Page, R. D., Sun, B. H., Ashley, S. F., Darby, I. G., Eeckhaudt, S., Garnsworthy, A. B., Gómez-Hornillos, M. B., Grahn, T. & Jenkins, D. G. & 26 others, Jones, P., Julin, R., Joss, D. T., Ketelhut, S., Li, J. G., Leino, M., Liu, M. L., Li, Z. H., Ma, C., Niikura, M., Nyman, M., Pakarinen, J., Pietri, S., Podolyák, Z., Rahkila, P., Sarén, J., Thompson, N. J., Uusitalo, J., Uesaka, T., Williams, S., Wu, Y. F., Xu, X. X., Yuan, C. X., Zeng, Q. B., Zhang, F. S. & Zhang, S. Y., 26 Feb 2026, In: Physical Review Letters. 136, 7 p., 082503.

Measurement of the ^{244}Cm neutron capture cross section at the n_TOF facility at CERN

(The n-TOF Collaboration [www.cern.ch/ntof]), 1 Feb 2026, In: Annals of Nuclear Energy. 227, 14 p., 111977.

New measurement of ^{50}Cr and ^{53}Cr (n, γ) cross sections at n_TOF: a call for chromium nuclear data revision

The n TOF Collaboration (www.cern.ch/ntof), 12 Jan 2026, In: European Physical Journal A. 62, 1, 19 p., 5.

Low-uncertainty measurement of the ^{239}Pu (n,f) cross section at n_TOF in a very broad energy range from 0.02 eV up to 10 MeV

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Characterisation of the neutron beam in the n_TOF-EAR2 experimental area at CERN following the spallation target upgrade

The n_TOF Collaboration, 8 Dec 2025, In: European Physical Journal A. 61, 12, 15 p., 277.

Measurement of the ^{235}U fission cross section relative to the standard $^{10}\text{B}(n, \alpha)$ reaction at the CERN n_TOF facility: Results for $E_n < 2$ eV

(The n-TOF Collaboration [www.cern.ch/ntof]), 1 Dec 2025, In: Applied Radiation and Isotopes. 226, 7 p., 112063.

Unconventional ^{67}Cu production using high-energy bremsstrahlung and cross section evaluation

Eslami, M., Jenkins, D. G. & Bashkanov, M., 7 Nov 2025, In: Physical Review C. 112, 5, 19 p., 054603.

Long-lived radioactive waste: Nuclear data requirements, issues for safe storage and potential for transmutation

Jenkins, D., 4 Nov 2025, *Nuclear Data: Applications to society and industry*. Institute of Physics Publishing, p. 5.1-5.23

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Refining the deep sub-barrier $^{12}\text{C}+^{12}\text{C}$ excitation function with STELLA

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Emerging tension between isospin symmetry and nuclear deformation at $A = 78$

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In-beam γ ray spectroscopy of ^{94}Ag

Pereira-López, X., Bentley, M. A., Wadsworth, R., Ruotsalainen, P., Lenzi, S. M., Forsberg, U., Auranen, K., Blazhev, A., Cederwall, B., Grahn, T., Greenlees, P., Illana, A., Jenkins, D. G., Julin, R., Jutila, H., Juutinen, S., Liu, X., Llewelyn, R., Luoma, M. & Moschner, K. & 18 others, Müller-Gatermann, C., Singh, B. S. N., Nowacki, F., Ojala, J., Pakarinen, J., Papadakis, P., Rahkila, P., Romero, J., Sandzelius, M., Sarén, J., Tann, H., Uthayakumaar, S., Uusitalo, J., Vega-Romero, J. G., Vilhena, J. M., Yajzey, R., Zhang, W. & Zimba, G., 25 Jun 2025, In: *EPJ Web of Conferences*. 329, 4 p., 01002.

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Measurement of the Yb 176 (n, γ) cross section at the n_TOF facility at CERN

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

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

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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., Bécaries, 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., Gheorghie, I., Glodariu, T., Gonçalves, I. F., González-Romero, E., Goverdovski, A., Griesmayer, E., Guerrero, C., Gunsing, F., Harada, H., Heftrich, T., Heinitz, S., Hernández-Prieto, A., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Katabuchi, T., Kavargin, 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., Paradela, 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 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

Balibrea-Correa, J., Mendoza, E., Cano-Ott, D., Krtička, M., Altstadt, S., Andrzejewski, J., Audouin, L., Bécaries, V., Barbagallo, M., Bečvář, F., Belloni, F., Berthoumieux, E., Billowes, J., Boccone, V., Bosnar, D., Brugger, M., Calviño, F., Calviani, M., Carrapiço, C. & Cerutti, F. & 100 others, Chiaveri, E., Chin, J. M., 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., Guerrero, C., Gómez-Hornillos, M. B., Ganesan, S., García, A. R., Giubrone, G., Gonçalves, I. F., González-Romero, E., Goverdovski, A., Griesmayer, E., Gunsing, F., 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., Kivel, N., Koehler, P., Kokkoris, M., Kroll, J., Lampoudis, C., Langer, C., Leal-Cidoncha, E., Lederer, C., Leeb, H., Leong, L. S., Leredegui-Marco, J., Licata, M., Losito, R., Mallick, A., 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., 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. & Žugec, P., 13 Sept 2017, *ND 2016: International Conference on Nuclear Data for Science and Technology*. EDP Sciences, Vol. 146. 11021

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., Bécaries, 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., Günsing, 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., Ketterov, V., Khryachkov, V., Koehler, P., Kokkoris, M., Kroll, J., Krůčka, M., Lampoudis, C., Langer, C., Leal-Cidoncha, E., Lederer, C., Leeb, H., Leong, L. S., Leredegui-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., Schillebeecx, 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. & Ž Ugec, P., 13 Sept 2017, *ND 2016: International Conference on Nuclear Data for Science and Technology*. EDP Sciences, Vol. 146. 11022

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

Leredegui-Marco, J., Cortés-Giraldo, M. A., Guerrero, C., Quesada, J. M., Lo Meo, S., Massimi, C., Barbagallo, M., Colonna, N., Mancussi, D., Mingrone, F., Sabaté-Gilarte, M., Vannini, G., Vlachoudis, V., Aberle, O., Andrzejewski, J., Audouin, L., Bacak, M., Balibrea-Correa, J., Bečvář, F. & Berthoumieux, E. & 98 others, Billowes, J., Bosnar, D., Brown, A., Caamaño, M., Calviño, F., Calviani, M., Cano-Ott, D., Cardella, R., Casanovas, A., Cerutti, F., Chen, Y. H., Chiaveri, E., Cortés, G., Cosentino, L., Damone, L. A., Diakaki, M., Domingo-Pardo, C., Dressler, R., Dupont, E., Durán, I., Fernández-Domínguez, B., Ferrari, A. C., Ferreira, P. R., Finocchiaro, P., Göbel, K., Gómez-Hornillos, M. B., García, A. R., Gawlik, A., Gilardoni, S., Glodariu, T., Gonçalves, I. F., González-Romero, E., Griesmayer, E., Günsing, F., Harada, H., Heinitz, S., Heyse, J., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Kalamara, A., Kavrigin, P., Kimura, A., Kivel, N., Kokkoris, M., Krůčka, M., Kurtulgil, D., Leal-Cidoncha, E., Lederer, C., Leeb, H., Lonsdale, S. J., Macina, D., Marganec, J., Martínez, T., Masi, A., Mastinu, P. F., Mastromarco, M., Mauger, E. A., Mazzone, A., Mendoza, E., Mengoni, A., Milazzo, P. M., Musumarra, A., Negret, A., Nolte, R., Oprea, A., Patronis, N., Pavlik, A., Perkowski, J., Porras, I., Praena, J., Radeck, D., Rauscher, T., Reifarh, R., C. Rout, P., Rubbia, C., Ryan, J. A., Saxena, A. K., Schillebeecx, P., Schumann, D., Smith, A. G., Sosnin, N. V., Stamatopoulos, A., Tagliente, G., Tain, J. L., Tarifeño-Saldivia, A., Tassan-Got, L., Valenta, S., Variale, V., Vaz, P., Ventura, A., Vlastou, R., Wallner, A., Warren, S., 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. 03030

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

Leredegui-Marco, J., Guerrero, C., Cortés-Giraldo, M. A., Quesada, J. M., Mendoza, E., Cano-Ott, D., Eberhardt, K., Junghans, A. R., Aberle, O., Andrzejewski, J., Audouin, L., Bacak, M., Balibrea-Correa, J., Barbagallo, M., Bečvář, F., Berthoumieux, E., Billowes, J., Bosnar, D., Brown, A. & Caamaño, M. & 99 others, Calviño, F., Calviani, M., Cardella, R., Casanovas, A., Cerutti, F., Chen, Y. H., Chiaveri, E., Colonna, N., Cortés, G., Cosentino, L., Damone, L. A., Diakaki, M., Domingo-Pardo, C., Dressler, R., Dupont, E., Durán, I., Fernández-Domínguez, B., Ferrari, A. C., Ferreira, P. R., Finocchiaro, P., Göbel, K., Gómez-Hornillos, M. B., García, A. R., Gawlik, A., Gilardoni, S., Glodariu, T., Gonçalves, I. F., González-Romero, E., Griesmayer, E., Günsing, F., Harada, H., Heinitz, S., Heyse, J., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Kalamara, A., Kavrigin, P., Kimura, A., Kivel, N., Kokkoris, M., Krůčka, M., Kurtulgil, D., Leal-Cidoncha, E., Lederer, C., Leeb, H., Lo Meo, S., Lonsdale, S. J., Macina, D., Marganec, J., Martínez, T., Masi, A., Massimi, C., Mastinu, P. F., Mastromarco, M., Mauger, E. A., Mazzone, A., Mengoni, A., Milazzo, P. M., Mingrone, F., Musumarra, A., Negret, A., Nolte, R., Oprea, A., Patronis, N., Pavlik, A., Perkowski, J., Porras, I., Praena, J., Radeck, D., Rauscher, T., Reifarh, R., C. Rout, P., Rubbia, C., Ryan, J. A., Sabaté-Gilarte, M., Saxena, A. K., Schillebeecx, P., Schumann, D., Smith, A. G., Sosnin, N. V., Stamatopoulos, A., Tagliente, G., Tain, J. L., Tarifeño-Saldivia, A., Tassan-Got, L., Valenta, S., Vannini, G., Variale, V., Vaz, P., Ventura, A., Vlachoudis, V., Vlastou, R., Wallner, A., Warren, S., 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. 11045

The measurement programme at the neutron time-of-flight facility n-TOF at CERN

Günsing, F., Aberle, O., Andrzejewski, J., Audouin, L., Bécáres, V., Bacak, M., Balibrea-Correa, J., Barbagallo, M., Barros, S., Bečvář, F., Beinrucker, C., Belloni, F., Berthoumieux, E., Billowes, J., Bosnar, D., Brown, A., Brugger, M., Caamaño, M., Calviño, F. & Calviani, M. & 131 others, Cano-Ott, D., Cardella, R., Casanovas, A., Castelluccio, D. M., Cerutti, F., Chen, Y. H., Chiaveri, E., Colonna, N., Cortés-Giraldo, M. A., Cortés, G., 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., Ganesan, S., García, A. R., Gawlik, A., Gheorghie, I., Gilardoni, S., Glodariu, T., Gonçalves, I. F., González-Romero, E., Goverdovski, A., Griesmayer, E., Guerrero, C., Göbel, K., Harada, H., Heftrich, T., Heinitz, S., Hernández-Prieto, A., Heyse, J., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Kalamara, A., Katabuchi, T., Kavrigin, P., Ketterov, V., Khryachkov, V., Kimura, A., Kivel, N., Kokkoris, M., Krůčka, M., Kurtulgil, D., Leal-Cidoncha, E., Lederer, C., Leeb, H., Leredegui, J., Licata, M., Lo Meo, S., Lonsdale, S. J., Losito, R., Macina, D., Marganec, J., Martínez, T., 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., Montesano, S., Musumarra, A., Nolte, R., Negret, A., Oprea, A., Palomo-Pinto, F. R., Paradela, C., Patronis, N., Pavlik, A., Perkowski, J., Porras, I., Praena, J., Quesada, J. M., Radeck, D., 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., Schillebeecx, P., Schmidt, S. M., Schumann, D., Sedyshev, P., Smith,

A. G., Sosnin, N. V., Stamatopoulos, A., Suryanarayana, S. V., 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., Vlachoudis, V., Vlastou, R., Wallner, A., Warren, S., Weigand, M., Weiss, C., Wolf, C. R., 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. 11002

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

Chiaveri, E., Aberle, O., Andrzejewski, J., Audouin, L., Bacak, M., Balibrea-Correa, J., Barbagallo, M., Bečvář, F., Berthoumieux, E., Billowes, J., Bosnar, D., Brown, A., Caamaño, M., Calviño, F., Calviani, M., Cano-Ott, D., Cardella, R., Casanovas, A., Cerutti, F. & Chen, Y. H. & 96 others, Colonna, N., Cortés, G., Cortés-Giraldo, M. A., Cosentino, L., Damone, L. A., Diakaki, M., Domingo-Pardo, C., Dressler, R., Dupont, E., Durán, I., Fernández-Domínguez, B., Ferrari, A. C., Ferreira, P. R., Finocchiaro, P., Göbel, K., García, A. R., Gawlik, A., Gilardoni, S., Glodariu, T., Gonçalves, I. F., González-Romero, E., Griesmayer, E., Guerrero, C., Günsing, F., Harada, H., Heinitz, S., Heyse, J., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Kalamara, A., Kavragin, P., Kimura, A., Kivel, N., Kokkoris, M., Krtička, M., Kurtulgil, D., Leal-Cidoncha, E., Lederer, C., Leeb, H., Lerendegui-Marco, J., Lo Meo, S., Lonsdale, S. J., Macina, D., Marganec, J., Martínez, T., Masi, A., Massimi, C., Mastinu, P. F., Mastromarco, M., Maugeri, E. A., Mazzone, A., Mendoza, E., Mengoni, A., Milazzo, P. M., Mingrone, F., Musumarra, A., Negret, A., Nolte, R., Oprea, A., Patronis, N., Pavlik, A., Perkowski, J., Porras, I., Praena, J., Quesada, J. M., Radeck, D., Rauscher, T., Reifarh, R., Rubbia, C., Ryan, J. A., Sabaté-Gilarte, M., Saxena, A. K., Schillebeeckx, P., Schumann, D., Smith, A. G., Sosnin, N. V., Stamatopoulos, A., Tagliente, G., Tain, J. L., Tarifeño-Saldivia, A., Tassan-Got, L., Tsinganis, A., Valenta, S., Vannini, G., Variale, V., Vaz, P., Ventura, A., Vlachoudis, V., Vlastou, R., Wallner, A., Warren, S., 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. 03001

The ^{236}U neutron capture cross-section measured at the n-TOF CERN facility

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The $^{33}\text{S}(n,\alpha)^{30}\text{Si}$ cross section measurement at n-TOF-EAR2 (CERN): From 0.01 eV to the resonance region

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Clark, R. M., Krucken, 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 Journal A. 3, 1, p. 17-20 4 p.

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 $^{12}\text{C}+^{12}\text{C}$ 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 $^{12}\text{C}+^{12}\text{C}$ 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 $^{12}\text{C}+^{12}\text{C}$ 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 $^{12}\text{C}+^{12}\text{C}$ 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

EPSRC IAA: Radioguided mining for energy-efficient potash and polyhalite extraction in North Yorkshire

JENKINS, D. (Principal investigator)

EPSRC: £4,090.00

1/09/25 → 31/10/26

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: Colour neutron tomography

JENKINS, D. (Principal investigator)
EPSRC
7/10/19 → 31/03/20

EPSRC IAA: Knowledge transfer on nuclear isomers to AWE

JENKINS, D. (Principal investigator)
EPSRC
1/04/21 → 30/06/21

EPSRC IAA: Radioguided mining for energy-efficient potash and polyhalite extraction in North Yorkshire

JENKINS, D. (Principal investigator)
EPSRC
1/09/25 → 31/10/26

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)
13/02/25 → 12/02/27

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. (Student), MILNE, S. A. (Student), SCRUTON, L. M. (Student), Diget, C. A. (Co-investigator) & NICHOLS, A. (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

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, B. (Principal investigator), WADSWORTH, B. (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. K. (Co-investigator) & WADSWORTH, B. (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. K. (Co-investigator), WADSWORTH, B. (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. K. (Co-investigator), WADSWORTH, B. (Co-investigator), WATTS, D. (Co-investigator) & ZACHARIOU, N. (Co-investigator)
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)
1/10/24 → 30/09/27

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

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

Real Time Minaturised 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

RPF 13/14 Digital data acquisition for nuclear physics

Jenkins, D. (Principal investigator)

1/08/13 → 1/08/14

Single atom imaging

JENKINS, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)

1/10/12 → 31/03/13

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

Two photon experiment

JENKINS, D. (Principal investigator)

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)

20/08/10 → 20/11/10