

Kahl, David (Daid) Miles — Publications

Books

[*Stellar Evolution, Nuclear Astrophysics, and Nucleogenesis*](#) by A. G. W. Cameron, editor David M. Kahl. Dover Publications, Inc., 2013

As a service to the community, I re-typeset, edited and approached a publisher with this out-of-print but seminal work from 1957 by the late Harvard University Prof. Alastair Cameron. This work was pivotal in establishing the field of nuclear astrophysics, written independently and concurrently to similar work by Nobel Laureate William Fowler and collaborators.

Magazine Articles

Yamaguchi, H., Kahl, D. & Kubono, S., [CRIB: The Low Energy In-Flight RI Beam Separator](#), *Nuclear Physics News* **30** (2020) 21–27

Refereed Articles (as first author or one of the primary authors)

1. Zhang, L. Y., He, J. J., deBoer, R. J., Wiescher, M., Heger, A., Kahl, D., Su, J., Odell, D., Chen, Y. J., Li, X. Y., Wang, J. G., Zhang, L., Cao, F. Q., Zhang, H., Zhang, Z., Jiang, X. Z., Wang, L. H., Li, Z. M., Song, L. Y., Sun, L. T., Wu, Q., Li, J. Q., Cui, B. Q., Chen, L. H., Ma, R. G., Li, E. T., Lian, G., Sheng, Y., Li, Z. H., Guo, B., Zhou, X. H., Zhang, Y. H., & Liu, W. P., Measurement of $^{19}\text{F}(\text{p}, \gamma)^{20}\text{Ne}$ reaction suggests CNO break-out in first stars, *Nature* (Accepted 11 August 2022)
2. Kahl, D., José, J. & Woods, P. J., [Uncertainties in the \$^{18}\text{F}\(\text{p}, \alpha\)^{15}\text{O}\$ reaction rate in classical novae](#), *Astronomy and Astrophysics* **653** (2021) A64
3. Zhang, L. Y., Su, J., He, J. J., Wiescher, M., deBoer, R. J., Kahl, D., Chen, Y. J., Li, X. Y., Wang, J. G., Zhang, L., Cao, F. Q., Zhang, H., Zhang, Z. C., Jiao, T. Y., Sheng, Y. D., Wang, L. H., Song, L. Y., Jiang, X. Z., Li, Z. M., Li, E. T., Wang, S., Lian, G., Li, Z. H., Tang, X. D., Zhao, H. W., Sun, L. T., Wu, Q., Li, J. Q., Cui, B. Q., Chen, L. H., Ma, R. G., Guo, B., Xu, S. W., Li, J. Y., Qi, N. C., Sun, W. L., Guo, X. Y., Zhang, P., Chen, Y. H., Zhou, Y., Zhou, J. F., He, J. R., Shang, C. S., Li, M. C., Zhou, X. H., Zhang, Y. H., Zhang, F. S., Hu, Z. G., Xu, H. S., Chen, J. P. & Liu, W. P., [Direct Measurement of the Astrophysical \$^{19}\text{F}\(\text{p}, \alpha\gamma\)^{16}\text{O}\$ Reaction in the Deepest Operational Underground Laboratory](#), *Physical Review Letters* **127** (2021) 152702
4. Hu, J., Yamaguchi, H., Lam, Y. H., Heger, A., Kahl, D., Jacobs, A. M., Johnston, Z., Xu, S. W., Zhang, N. T., Ma, S. B., Ru, L. H., Liu, E. Q., Liu, T., Hayakawa, S., Yang, L., Shimizu, H., Hamill, C. B., Murphy, A. S. J., Su, J., Fang, X., Chae, K. Y., Kwag, M. S., Cha, S. M., Duy, N. N., Uyen, N. K., Kim, D. H., Pizzone, R. G., La Cognata, M., Cherubini, S., Romano, S., Tumino, A., Liang, J., Psaltis, A., Sferrazza, M., Kim, D., Li, Y. Y. & Kubono, S., [Advancement of Photospheric Radius Expansion and Clocked Type-I X-Ray Burst Models with the New \$^{22}\text{Mg}\(\alpha, \text{p}\)^{25}\text{Al}\$ Reaction Rate Determined at the Gamow Energy](#), *Physical Review Letters* **127** (2021) 172701

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5. Hayakawa, S., La Cognata, M., Lamia, L., Yamaguchi, H., Kahl, D., Abe, K., Shimizu, H., Yang, L., Beliuskina, O., Cha, S. M., Chae, K. Y., Cherubini, S., Figuera, P., Ge, Z., Gulino, M., Hu, J., Inoue, A., Iwasa, N., Kim, A., Kim, D., Kiss, G., Kubono, S., La Commara, M., Lattuada, M., Lee, E. J., Moon, J. Y., Palmerini, S., Parascandolo, C., Park, S. Y., Phong, V. H., Pierroutsakou, D., Pizzone, R. G., Rapisarda, G. G., Romano, S., Spitaleri, C., Tang, X. D., Trippella, O., Tumino, A. & Zhang, N. T., [Constraining the Primordial Lithium Abundance: New Cross Section Measurement of the \$^7\text{Be} + \text{n}\$ Reactions Updates the Total \$^7\text{Be}\$ Destruction Rate](#), *Astrophysical Journal Letters* **915** (2021) L13

6. Lederer-Woods, C., Woods, P. J., Davinson, T., Estrade, A., Heyse, J., Kahl, D., Lonsdale, S. J., Paradela, C., Schillebeeckx, P., Aberle, O., Amaducci, S., Andrzejewski, J., Audouin, L., Bacak, M., Balibrea, 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., Chiaveri, E., Colonna, N., Cortés, G., Cortés-Giraldo, M. A., Cosentino, L., Cristallo, S., Damone, L. A., Diakaki, M., Domingo-Pardo, C., Dressler, R., Dupont, E., Durán, I., Fernández-Domínguez, B., Ferrari, A., Ferreira, P., Ferrer, F. J., Finocchiaro, P., Furman, V., Göbel, K., García, A. R., Gawlik, A., Gilardoni, S., Glodariu, T., Gonçalves, I. F., González-Romero, E., Griesmayer, E., Guerrero, C., Gunsing, F., Harada, H., Heinitz, S., Jenkins, D. G., Jericha, E., Käppeler, F., Kadi, Y., Kalamara, A., Kavrigin, P., Kimura, A., Kivel, N., Kokkoris, M., Krtička, M., Kurtulgil, D., Leal-Cidoncha, E., Leeb, H., Lerendegui-Marco, J., Lo Meo, S., Macina, D., Manna, A., Marganiec, J., Martínez, T., Masi, A., Massimi, C., Mastinu, P., 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., Reifarth, R., Rubbia, C., Ryan, J. A., Sabaté-Gilarte, M., Saxena, A., Schumann, D., Sedyshev, P., 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., Weiss, C., Wright, T., Žugec, P. & n TOF Collaboration, [Destruction of the cosmic \$\gamma\$ -ray emitter \$^{26}\text{Al}\$ in massive stars: Study of the key \$^{26}\text{Al}\(\text{n}, \alpha\)\$ reaction](#), *Physical Review C* **104** (2021) L032803
7. Lederer-Woods, C., Woods, P. J., Davinson, T., Kahl, D., Lonsdale, S. J., Aberle, O., Amaducci, S., Andrzejewski, J., Audouin, L., Bacak, M., Balibrea, 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., Chiaveri, E., Colonna, N., Cortés, G., Cortés-Giraldo, M. A., Cosentino, L., Cristallo, S., Damone, L. A., Diakaki, M., Domingo-Pardo, C., Dressler, R., Dupont, E., Durán, I., Fernández-Domínguez, B., Ferrari, A., Ferreira, P., Ferrer, F. J., Finocchiaro, P., Furman, V., Göbel, K., García, A. R., Gawlik, A., Gilardoni, S., Glodariu, T., Gonçalves, I. F., González-Romero, E., Griesmayer, E., Guerrero, C., Gunsing, 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., Krtička, M., Kurtulgil, D., Leal-Cidoncha, E., Leeb, H., Lerendegui-Marco, J., Lo Meo, S., Macina, D., Manna, A., Marganiec, J., Martínez, T., Masi, A., Massimi, C., Mastinu, P., 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., Reifarth, R., Rubbia, C., Ryan, J. A., Sabaté-Gilarte, M., Saxena, A., Schillebeeckx, P., Schumann, D., Sedyshev, P., 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., Weiss, C., Wright, T., Žugec, P. & n TOF Collaboration, [Destruction of the cosmic \$\gamma\$ -ray emitter \$^{26}\text{Al}\$ in massive stars: Study of the key \$^{26}\text{Al}\(\text{n}, \text{p}\)\$ reaction](#), *Physical Review C* **104** (2021) L022803
8. Hamill, C. B., Woods, P. J., Kahl, D., Longland, R., Greene, J. P., Marshall, C., Portillo, F. & Setoodehnia, K., [Study of the \$^{25}\text{Mg}\(\text{d}, \text{p}\)^{26}\text{Mg}\$ reaction to constrain the \$^{25}\text{Al}\(\text{p}, \gamma\)^{26}\text{Si}\$ resonant reaction rates in nova burning conditions](#), *European Physical Journal A* **56** (2020) 36
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- Setoodehnia, K., Teranishi, T., Tokieda, H., Yamada, T., Yun, C. C. & Zhang, L. Y., [First measurement of \$^{30}\text{S}+\alpha\$ resonant elastic scattering for the \$^{30}\text{S}\(\alpha, \text{p}\)\$ reaction rate](#), *Physical Review C* **97** (2018) 015802
12. Yamaguchi, H., Kahl, D., Hayakawa, S., Sakaguchi, Y., Abe, K., Nakao, T., Suhara, T., Iwasa, N., Kim, A., Kim, D. H., Cha, S. M., Kwag, M. S., Lee, J. H., Lee, E. J., Chae, K. Y., Wakabayashi, Y., Imai, N., Kitamura, N., Lee, P., Moon, J. Y., Lee, K. B., Akers, C., Jung, H. S., Duy, N. N., Khiem, L. H. & Lee, C. S., [Experimental investigation of a linear-chain structure in the nucleus \$^{14}\text{C}\$](#) , *Physics Letters B* **766** (2017) 11–16
 13. Hou, S. Q., He, J. J., Parikh, A., Kahl, D., Bertulani, C. A., Kajino, T., Mathews, G. J. & Zhao, G., [Non-extensive Statistics to the Cosmological Lithium Problem](#), *Astrophysical Journal* **834** (2017) 165
 14. Hayakawa, S., Kubono, S., Kahl, D., Yamaguchi, H., Binh, D. N., Hashimoto, T., Wakabayashi, Y., He, J. J., Iwasa, N., Kato, S., Komatsubara, T., Kwon, Y. K. & Teranishi, T., [First direct measurement of the \$^{11}\text{C}\(\alpha, \text{p}\)^{14}\text{N}\$ stellar reaction by an extended thick-target method](#), *Physical Review C* **93** (2016) 065802
 15. Setoodehnia, K., Chen, A. A., Kahl, D., Komatsubara, T., José, J., Longland, R., Abe, Y., Binh, D. N., Chen, J., Cherubini, S., Clark, J. A., Deibel, C. M., Fukuoka, S., Hashimoto, T., Hayakawa, T., Hendriks, J., Ishibashi, Y., Ito, Y., Kubono, S., Lennard, W. N., Moriguchi, T., Nagae, D., Nishikiori, R., Niwa, T., Ozawa, A., Parker, P. D., Seiler, D., Shizuma, T., Suzuki, H., Wrede, C., Yamaguchi, H. & Yuasa, T., [Nuclear structure of \$^{30}\text{S}\$ and its implications for nucleosynthesis in classical novae](#), *Physical Review C* **87** (2013) 065801
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— PHYSICAL REVIEW C 50th ANNIVERSARY MILESTONE —

Refereed Articles (as a co-author)

17. Mistry, A., Albers, H., Arıcı, T., Banerjee, A., Benzoni, G., Cederwall, B., Gerl, J., Górska, M., Hall, O., Hubbard, N., Kojouharov, I., Jolie, J., Martinez, T., Podolyák, Z., Regan, P., Tain, J., Tarifeno-Saldivia, A., Schaffner, H., Werner, V., Ağgez, G., Agramunt, J., Ahmed, U., Aktas, O., Alcayne, V., Algora, A., Alhomaidhi, S., Amjad, F., Appleton, C., Armstrong, M., Balogh, M., Banerjee, K., Bednarczyk, P., Benito, J., Bhattacharya, C., Black, P., Blazhev, A., Bottoni, S., Boutachkov, P., Bracco, A., Bruce, A., Brunet, M., Bruno, C., Burrows, I., Calvino, F., Canavan, R., Cano-Ott, D., Chishti, M., Coleman-Smith, P., Cortés, M., Cortes, G., Crespi, F., Das, B., Davinson, T., De Blas, A., Dickel, T., Doncel, M., Ertoprak, A., Esmaylzadeh, A., Fornal, B., Fraile, L., Galtarossa, F., Gottardo, A., Guadilla, V., Ha, J., Haettner, E., Häfner, G., Heggen, H., Herrmann, P., Hornung, C., Jazrawi, S., John, P., Jokinen, A., Jones, C., Kahl, D., Karayonchev, V., Kazantseva, E., Kern, R., Knafla, L., Knöbel, R., Koseoglou, P., Kosir, G., Kostyleva, D., Kurz, N., Kuzminchuk, N., Labiche, M., Lawson, J., Lazarus, I., Lenzi, S., Leoni, S., Llanos-Expósito, M., Lozeva, R., Maj, A., Meena, J., Mendoza, E., Menegazzo, R., Mengoni, D., Mertzimekis, T., Mikolajczuk, M., Million, B., Mont-Geli, N., Morales, A., Moral, P., Mukha, I., Murias, J., Nacher, E., Napiralla, P., Napoli, D., Nara-Singh, B., O'Donnell, D., Orrigo, S., Page, R., Palit, R., Pallas, M., Pellumaj, J., Pelonis, S., Pentilla, H., Pérez de Rada, A., Pérez-Vidal, R., Petrache, C., Pietralla, N., Pietri, S., Pigliapoco, S., Plaza, J., Polettini, M., Porzio, C., Pucknell, V., Recchia, F., Reiter, P., Rezynkina, K., Rinta-Antila, S., Rocco, E., Rösch, H., Roy, P., Rubio, B., Rudigier, M., Ruotsalainen, P., Saha, S., Şahin, E., Scheidenberger, C., Seddon, D., Sexton, L., Sharma, A., Si, M., Simpson, J., Smith, A., Smith, R., Söderström, P., Sood, A., Soylu, A., Tanaka, Y., Valiente-Dobón, J., Vasileiou, P., Vasiljević, J., Vesic, J., Villamarin, D., Weick, H., Wiebusch, M., Wiederhold, J., Wieland, O., Wollersheim, H., Woods, P., Yaneva, A., Zanon, I., Zhang, G., Zhao, J., Zidarova, R., Zimba, G. & Zyriliou, A., [The DESPEC setup for GSI and FAIR](#), *Nuclear Instruments and Methods in Physics Research Section A* **1033** (2022) 166662
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