

## <sup>93</sup>As

In 2024, Shimizu et al. reported the observation of <sup>93</sup>As in the paper “Production of new neutron-rich isotopes near the N=60 isotones <sup>92</sup>Ge and <sup>93</sup>As by in-flight fission of a 345 MeV/nucleon <sup>238</sup>U beam” (2024Sh17). The beam was provided by the RIBF accelerator complex at RIKEN and the fission fragments were separated and identified with the large-acceptance two-stage separator BigRIPS. “In total, we have produced and identified the following 15 new neutron-rich isotopes: <sup>84</sup>Cu, <sup>86,87</sup>Zn, <sup>88,89</sup>Ga, <sup>91,92</sup>Ge, <sup>93,94,95</sup>As, <sup>96,97</sup>Se, <sup>99,100</sup>Br, and <sup>103</sup>Kr.” 543 events for <sup>93</sup>As were recorded. Preliminary results had been presented earlier in annual reports (2015ShZX,2018ShZZ).

- [2015ShZX](#) Y. Shimizu, T. Kubo, N. Inabe, D. S. Ahn *et al.*, REPT-RIKEN **48**, p. 71 (2015).
- [2018ShZZ](#) Y. Shimizu, N. Fukuda, K. P. Rykaczewski, R. K. Grzywacz *et al.*, REPT-RIKEN **51**, p. 84 (2018).
- [2024Sh17](#) Y. Shimizu, T. Kubo, T. Sumikama, N. Fukuda *et al.*, Phys. Rev. C **109**, 044313 (2024).

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