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Recent Advances of the (n, cp) Reaction Measurements

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Abstract: Nuclear data of the (n, cp) reactions are important in the development of nuclear energy, the application of nuclear technology and the research of nuclear reaction theory. Based on the neutron sources of the 4.5 MV Van de Graaff accelerator of Peking University, EG-5 Van de Graaff accelerator of JINR, FLNP, HI-13 tandem accelerator of CIAE, and the CSNS Back-n, we have extended our measurements of the (n, cp) reactions from solid samples to gas samples, from GIC to TPC, and from binary fissions to ternary fissions. Recent advances in these three aspects are illustrated.

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