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Japan-US Joint Research Project TITAN

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Neutron-gamma discrimination using fast ADC: each dot corresponds to each pulse. Pulses enclosed by each line are picked up as 14.1 MeV neutrons, 2.45 MeV neutrons, and gamma-rays, respectively. Digital postprocess allows us accurate discrimination so that it becomes possible even to detect small amount of 14.1 MeV neutrons produced by d-T reaction. Improvement of discrimination procedure and hardware has been carried out, aiming at more accurate measurement and reliable operation. (Kouji SHINOHARA *et al.*, Plasma and Fusion Research Vol.8, 1402144 (2013) <http://www.jspf.or.jp/PFR/>)

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