

## NEW EXPERIMENTAL DATA FOR $^{53}\text{Cr}(n, \alpha)^{50}\text{Ti}$ REACTION

Khromyleva T.A., Bondarenko I.P., Khryachkov V.A., Kuzminov B.D.,  
Semenova N.N., Sergachev A.I.

*State Scientific center of the Russian Federation - Institute for Physics and Power  
Engineering, Obninsk, Russia*  
E-mail: taivanova@ippe.ru

(n, $\alpha$ ) Reaction cross section data for chromium isotopes ( $^{50}\text{Cr}$ ,  $^{52}\text{Cr}$ ,  $^{53}\text{Cr}$ ) are presented in this work

Measurements were carried out at the accelerator EG-1 IPPE. Ionization chamber with Frisch grid was used as a spectrometer. Created in IPPE digital signal processing method significantly reduced background from parasitic reactions and selected useful events

Measurements were made from 4.5 MeV to 7.15 MeV neutron energy region.