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P2.21: Fast Neutron Imaging with a p-Terphenyl Pixel Scintillation Array

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p-terphenyl crystals were grown by the self-seeding vertical Bridgman technique, and its scintillation properties were investigated for fast neutron scintillator applied in high temperature condition around 400K. light outputs were approximately 9,000 photons/(5.5-MeV alpha) and 19,000 photons/MeV for alpha-ray and gamma-ray excitation, respectively. we embedded a *p*-terphenyl pixel scintillation array and succeeded in imaging irradiated with fast neutrons with a multi-anode photomultiplier tube.

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