

CLYC SiPM Scintillation Detector

CLYC
SiPM

^3He Replacement

Isotope Identification

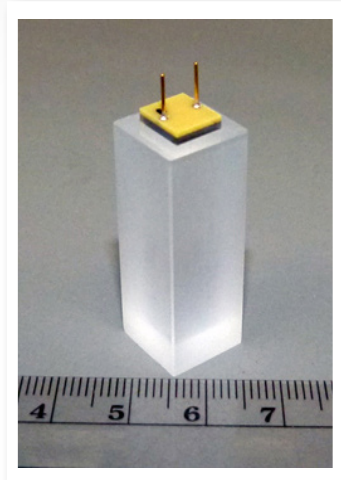
Dual Mode Operation

The Science Behind the Technology

 **RMD**
A Dynasil Company

CLYC SiPM

Neutron & Gamma Ray Detector



CLYC Optically Coupled to SiPM

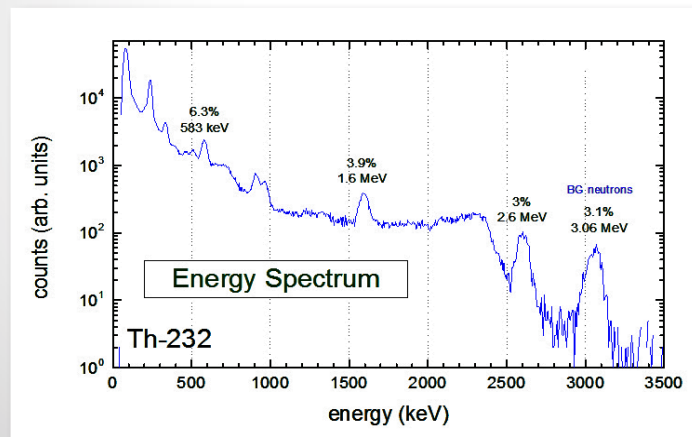


Packaging Customized by Application

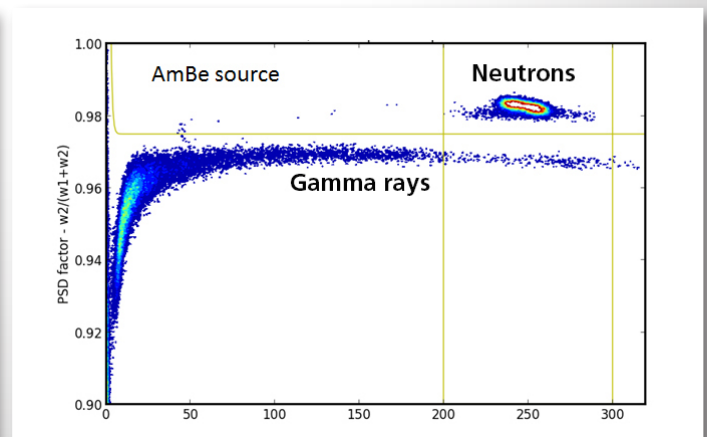
CLYC
SiPM

^3He Replacement – High efficiency neutron detection using CLYC with enriched ^6Li
Dual Mode Operation – Gamma-ray spectroscopy, as well as neutron counting

CLYC ($\text{Cs}_2\text{LiYCl}_6:\text{Ce}$) scintillation crystals detect neutrons and gamma rays, each with a characteristic optical photon signal. The SiPM is a low-power, compact, and relatively new detector of optical photons. Recent improvements in SiPM technology have enabled high energy resolution for fast, accurate isotope identification using CLYC. CLYC geometry, SiPM selection and package shape can be optimized for OEM applications.



High energy resolution for isotope identification



Pulse Shape Discrimination