Reading Decay Events With Three Energy Gates

Scoring guide · one credit per question · review written work against each rubric

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Question 1

Choice (4)

Gate H records only the high band, so that band contributes five events.

Question 2

The middle band gives 20 − 5 = 15 events. The low band gives 35 − 20 = 15 events.

Question 3

L and H give 30 events combined in the low and middle bands. Those two counts can trade off while their sum stays 30. Gate M separates the middle and high counts from the low band.

Question 4

The high band stays at five and the middle band stays at 20 − 5 = 15. The low band drops from 35 − 20 = 15 to 33 − 20 = 13, a loss of two detector counts.