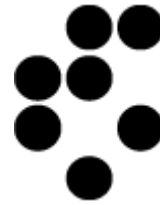


Calculation of decision thresholds according to the standard ISO 11929-3 in the presence of a peaked background

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Poster #5

- The decision threshold is calculated with LSQ method.
- LSQ method is flexible enough to accommodate all the sources of uncertainty into the uncertainty matrix of input quantities which makes it possible to calculate the decision threshold using simple matrix formalism.
- The uncertainty matrix is constructed for the peaked background.
- The design matrix comprises the indication and the total background.
- An example of the calculation is presented.
- It is shown that the decision threshold increases with the indication.

