

Videos on MU and teaching

A software for MU evaluation:
LNE Uncertainty

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Measurement Uncertainty Training Activity

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Survey of available software for MU evaluation



Detailed survey available at *MU Training* webpage

<https://www.euramet.org/european-metrology-networks/mathmet/activities/measurement-uncertainty-training-activity/for-trainees-measurement-uncertainty-training>

This video illustrates the software *LNE Uncertainty*

A user-friendly software for a validated implementation of the Guide to the Expression of Uncertainty in Measurement



LNE uncertainty is a free standalone application developed at LNE which enables measurement uncertainty to be estimated by

- **propagation of variances** [GUM (JCGM100:2008, 2008)]
- **propagation of distributions using Monte Carlo simulations** [GUM Supplement 1(JCGM101:2008, 2008)]

Free, available from the LNE website

Generic, usable by all measurement practitioners whatever their field of activity

Interfaced, not requiring programming skills... *but mastery of the measurement uncertainty evaluation process, and not replacing the business expertise of the measurement process in question.*

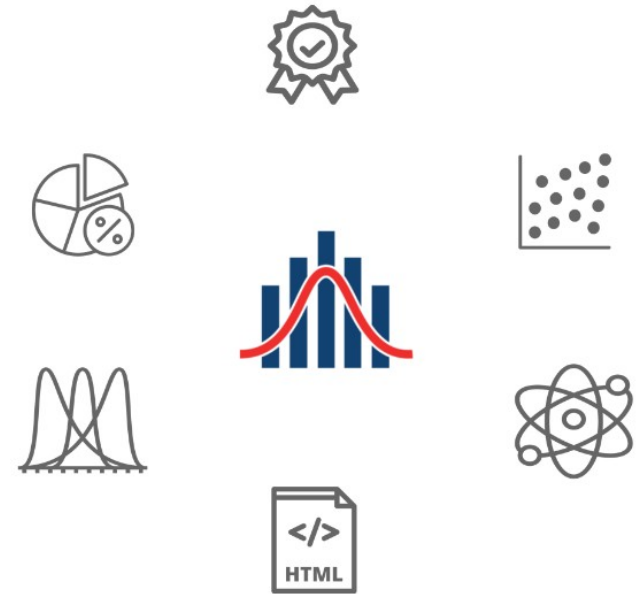


<https://www.lne.fr/fr/logiciel/lne-uncertainty-logiciel-evaluation-incertitudes-mesure>

LNE Uncertainty main features



- Four-step approach to measurement uncertainty evaluation compliant (GUM and GUM S1)
- Extensive library of distributions for modeling input uncertainties
- Statistical modeling of type A data (Gauss, Student)
- Multiple measurands, with nesting capability
- Uncertainty budget, various indices (GUM, Spearman, Sobol)
- Comparison procedure: validation of GUM and GUM S1 results
- Measurand characterization
- Results visualization in your web browser





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Thank you.

Any comments or ideas to improve LNE Uncertainty? Please let us know at infomathstat@lne.fr