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- Our poster is about in-situ calibration of the CTBTO seismic station AS-040 in Lembang using a Python GUI-based software implementing the Gabrielson method for STS-2 sensitivity estimation against a Trillium-120 reference.
- I am going to tell you why in-situ calibration at CTBTO–BMKG stations, ensuring accuracy, ISO/IEC 17025 traceability, and reliable seismic data without removing instruments, is important/fascinating.
- And what we did about this calibration was deploy a Trillium-120 calibrated at NMI alongside an STS-2 at AS-040 LEM, then apply the Gabrielson method with band-pass filtering, segmentation, Welch spectra, and coherence  $\geq 0.8$  to estimate sensitivity to analyse/understand it.
- The most important result of our work is that STS-2 sensitivities deviated less than  $\pm 5\%$  from the 1500 V/(m/s) datasheet, with uncertainty analysis confirming reliable and efficient traceable in-situ calibration.
- If you want to find out more, come over for a chat in front of our poster and we will be glad to explain the Gabrielson implementation and its application for CTBTO–BMKG seismic monitoring traceability.