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## Validation of the M2M4 SNR estimation algorithm in the SDR platform

The objective of this work is to validate the pertinence of the use of the signal to noise ratio (SNR) estimation algorithm based on second and fourth order moments ( $M_2M_4$ ) considering an AWGN channel for a QPSK digital modulation. The validation is done by means of the initial mathematical calculation of the probability of error  $P_e$ , it is also simulated in free software and finally it is implemented in the software defined radio SDR platform. The results obtained are shown in a graph from which the reliability of the channel SNR estimator algorithm is determined.

### Tipo de resumen

**Primary author(s)** : CHINO QUISPE, Michel (UNSAAC)

**Co-author(s)** : Prof. ARIZACA CUSICUNA, Jorge Luis (UNSAAC)

**Presenter(s)** : CHINO QUISPE, Michel (UNSAAC); Prof. ARIZACA CUSICUNA, Jorge Luis (UNSAAC)

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