Contribution ID: **24** Type: **Poster**

Basic model for verification of the simulation methodology of the analysis of EFT/Burst transient disturbances

Tuesday 12 September 2023 11:20 (20 minutes)

The research aimed to verify the adopted methodology for testing transients in circuits with inductive elements during their disconnection. The main focus of interest is the electromagnetic disturbances named electrical fast transients (EFT/Burst) that occur on this occasion. The analytical derivation allowed us to know the nature of the transition state and various cases that depend on the parameters of the circuit. Simulations are becoming more and more common due to their high accessibility. On the other hand, progress in this area allows for an increasingly faithful representation of reality. A comparison of the results obtained from the simulation allowed us to verify their correctness. Measurements on a physical bench were the reference point for both methods. The results obtained from all three ways allowed us to confirm the adopted research methodology.

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Session Classification: Poster Session

Track Classification: Computational models of electrical systems