



Contribution ID: 36

Type: **Talk**

The Volterra type equation related to the non-Debye relaxation

Friday, 20 September 2019 10:40 (20 minutes)

I will present the solutions of Volterra equations with the fading memory given by the Prabhakar function with negative upper parameter which is relevant to the standard non-Debye models of dielectric relaxation, namely for the Cole-Cole, Cole-Davidson, and Havriliak-Negami models. These integro-differential equations are solved by using the umbral calculus and Laplace transform method whose results are identically for the same fixed values of the used parameters.

Summary

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Session Classification: Session 5