

# Abstracts

## Introduction of artificial boundary conditions in the spectral moments method

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*E. Bachelier, G. Poussigue, P. Borderies and C. Benoit. "Introduction of artificial boundary conditions in the spectral moments method." 1997 Microwave and Guided Wave Letters 7.12 (Dec. 1997 [MGWL]): 396-398.*

The overall objective of this paper is to demonstrate the ability of the spectral moments method, a new method in electromagnetism, to incorporate absorbing boundary conditions. This demonstration is done successfully with plane pulse propagation in free space, and through a comparison with finite-difference time-domain (FDTD) results. The very good agreement of the results leads to the conclusion that the spectral moments method application for electromagnetic propagation and diffraction problems should be further investigated.

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