Contribution ID: **49** Type: **Oral**

Analysis of New Design of Graphene Patch Antenna Element for satellite Application

Saturday, 26 September 2020 11:30 (15 minutes)

This article presents an analysis of the substrate variation effect for a new design of graphene polygonal patch antenna for Ka-band applications, Where an application of graphene as radiating patch for satellite applications; will be proposed to ensure the proper functioning of this antenna for Ka-band , the effectiveness of graphene planar antenna will proved by a numerical simulation by CST with 3.01 dBi of antenna gain at 20.14 GHz and return loss less than -10 dB for substrate height h=1.575 mm, which gives us the opportunity to invest this antenna in the satellite transmission system.

Topics

Session B. Laser physics and modern optoelectronics

Primary author: Dr RABAH, Mohammed Amin (Algerian Space Agency- Satellite development center)

Co-authors: Dr DEBBAL, Mohammed (Belhadj Bouchaib University center AinTemouchent - ALGERIA); Dr BABA-AHMED , Mohammed Zakarya (Faculty Technology Dept Electronic University Hassiba Ben Bouali of Chlef)

Presenters: Dr RABAH, Mohammed Amin (Algerian Space Agency- Satellite development center); Dr DEBBAL, Mohammed (Belhadj Bouchaib University center AinTemouchent - ALGERIA)

Session Classification: Saturaday Session