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Authors: Y. Lopez-Diequez, J.M. Estudillo-Ayala, D. Jauregui-Vazquez, J.M. Sierra-Hernandez, L.A. Herrera-Piad, J.M. Cruz-Duarte, J.C. Hernandez-Garcia, R. Rojas-Laguna



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Multi-mode all Fiber Interferometer based on Fabry-Perot Multi-cavity and its Temperature Response

Y. Lopez-Dieguez¹, J.M. Estudillo-Ayala¹, D. Jauregui-Vazquez^{1,*}, J.M. Sierra-Hernandez¹, L.A. Herrera-Piad¹, J.M. Cruz-Duarte¹, J.C. Hernandez-Garcia^{1,2} and R. Rojas-Laguna¹

¹ *Departamento de Electrónica, División de Ingenierías Campus Irapuato-Salamanca, Universidad de Guanajuato, Carretera Salamanca-Valle de Santiago Km 3.5+1.8 Km, Comunidad de Palo Blanco, Salamanca, Gto., 36885, Mexico;*

² *Catedrático CONACYT, Consejo Nacional de Ciencia y Tecnología (CONACYT), Av. Insurgentes Sur No.1582, Col. Crédito Constructor, Del. Benito Juárez, C. P.039040 Ciudad de Mexico, Mexico.*

[*jaureguid@ugto.mx](mailto:jaureguid@ugto.mx)

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