

Free online web wizard application to assess the amount of nonlinear interference noise generated in fiber-optic communications systems (Ramot)

code: 7-2015-932

[Mark Shtaif](#), T.A.U Tel Aviv University, Engineering, School of Electrical Engineering

[Meir Feder](#), T.A.U Tel Aviv University, Engineering, Electrical Eng-Systems

Nonlinear interference noise (NLIN) is arguably the most important factor limiting the capacity of fiber-optic communication systems. It is customary to classify nonlinear phenomena as either intra-channel, or inter-channel. Intra-channel effects relate to the nonlinear distortions undergone by each of the WDM channels individually (i.e independently of the data transmitted over other WDM channels), whereas inter-channel effects are those that involve interference between different WDM channels. Since the nonlinear interference is related to the random data transmitted over the various channels it is customarily treated as noise. We refer to this noise as nonlinear interference noise or NLIN.

For more information please click here: <http://nlinwizard.eng.tau.ac.il/>

Contact for more information:

Ofer Shneyour , VP Business Development, ICT, +972.3.640.6496

Ramot at Tel Aviv University Ltd. P.O. Box 39296, Tel Aviv 61392 ISRAEL

Phone: +972-3-6406608

Fax: +972-3-6406675