



# Seminario de Estudiantes 2017-A

Invita a la charla

**“Investigations of spectral compression in all optical fiber device.”**

Presenta

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## RESUMEN:

Spectral compression is the key technology in the all-optical quantization process based on power-to wavelength conversion such as Soliton self-frequency shift effect, leading to a resolution improvement of the all-optical analog-to- digital conversion system. It also has a widely application in the fields of narrow line-width light sources, optical communication, transform-limited pulse generation, and pulse amplification. Some techniques were suggested to suppress the spectral pedestal. The use of a non linear loop mirror (NOLM) constitutes a good technique to perform these tasks. I will talk about the use of the polarization- imbalanced NOLM ,since this technique is simple comparing with other techniques, does not require the use of special fibers, and is stable because twist cancels environmentally-sensitive linear birefringence.

Fecha: **7 de marzo de 2017**

Lugar: **Auditorio del IFUAP, Edificio IF1**

Horario: **16:00 hrs.**