



University of Pavia

**Ph.D. School of Electrical
and Electronics Engineering
and Computer Science**



IEEE

**Photonics Society
Italian Chapter**

SEMINAR

Photonics Technologies and Coherent Systems for Innovation of Telecom Italia Optical Transport Networks

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TELECOM ITALIA

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Dipartimento di Ingegneria Industriale e dell'Informazione

The new Telecom Italia network 'Kaleidon', based on ROADM and coherent DWDM systems, represents the main optical network for very high speed transport in the coming years.

This presentation offers a survey of applications on the following topics:

- Transmission systems based on phase modulation and coherent Detection
- Wavelength switching photonics networks
- Optical superchannels and next generation photonics networks

Marco Schiano is in the Transport Innovation group of Telecom Italia where he works on the progress of backbone and metro networks. He has been the Coordinator of the IST-NOBEL project funded by the EC. His current interests include transparent optical networks, ultra-high capacity transmission systems, and network dimensioning and optimization. He is co-author of more than forty publications and four patents.

Organizers

Prof. Silvano Donati,

Prof. Valerio Annovazzi

Ph.D. Coordinator

Prof. M. Calzarossa

The seminar will take place in Italian
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