

Session Title	High Capacity Transmission	Session Code	5B3
Date and Time	July 5 (Thu.) / 14:00-15:30 (90')		
Place	Room B		
Session Chair	Inwoong Kim (Fujitsu Lab of America)		

## 5B3-1 (Invited)

14:00-14:30 (30')

### Perspectives of Multi-Band Optical Communication Systems

Antonio Napoli<sup>1</sup>, Nicola Calabretta<sup>2</sup>, Johannes K. Fischer<sup>3</sup>, Nelson Costa<sup>4</sup>, Silvio Abrate<sup>5</sup>, Joao Pedro<sup>4</sup>, Victor Lopez<sup>6</sup>, Vittorio Curri<sup>7</sup>, Darko Zibar<sup>8</sup>, Erwan Pincemin<sup>9</sup>, Sebastien Grot<sup>10</sup>, Günther Roelkens<sup>11</sup>, Chris Matrakidis<sup>12</sup>, and Wladek Forysiak<sup>13</sup>

<sup>1</sup>Coriant R&D GmbH, Germany, <sup>2</sup>TU/e, The Netherlands, <sup>3</sup>Fraunhofer HHI, Germany, <sup>4</sup>Coriant, Portugal, <sup>5</sup>ISMB, Italy, <sup>6</sup>Telefonica, Spain, <sup>7</sup>Politecnico di Torino, Italy, <sup>8</sup>DTU, Denmark, <sup>9</sup>Orange Labs, France, <sup>10</sup>Lea-Photonics, France, <sup>11</sup>Ghent Univ., Belgium, <sup>12</sup>Univ. of Peloponnese, Greece, <sup>13</sup>Aston Univ., UK

## 5B3-2 (Invited)

14:30-15:00 (30')

### Multi-Dimensional Modulation with Iterative Decoder for High Capacity Optical Transport Network

Masanori Nakamura, Fukutaro Hamaoka, Asuka Matsushita, and Yoshiaki Kisaka  
NTT Corp., Japan

## 5B3-3

15:00-15:15 (15')

### 50.4 Tbit/s, 128 QAM L-band WDM Injection Locked Coherent Transmission over 160 km with Spectral Efficiency of 10.5 bit/s/Hz

Takashi Kan, Keisuke Kasai, Masato Yoshida, Toshihiko Hirooka, and Masataka Nakazawa  
Tohoku Univ., Japan

## 5B3-4

15:15-15:30 (15')

### Single-Channel 7.68 Tbit/s, 64 QAM Coherent Nyquist Pulse Transmission over 150 km with a Spectral Efficiency of 9.7 bit/s/Hz

Kosuke Kimura, Junpei Nitta, Masato Yoshida, Keisuke Kasai, Toshihiro Hirooka, and Masataka Nakazawa  
Tohoku Univ., Japan