

|               |                                   |              |     |
|---------------|-----------------------------------|--------------|-----|
| Session Title | High Speed PON                    | Session Code | 5A2 |
| Date and Time | July 5 (Thu.) / 10:30-12:00 (90') |              |     |
| Place         | Room A                            |              |     |
| Session Chair | TBA                               |              |     |

### 5A2-1 (Invited)

10:30-11:00 (30')

#### Low Latency and High Bandwidth Access Network with 100G-EPON

Han Hyub Lee, Kyeong-Hwan Doo, Kwangok Kim, Seung Hwan Kim, Jun Ki Lee, and Hwan Seok Chung  
ETRI, Korea

### 5A2-2 (Invited)

11:00-11:30 (30')

#### NG -PON2 Development for 10G Internet Service : A Study Case of SK

Hongseok Shin, Youngjae Shim, and Sungmin Cho  
SK Telecom, Korea

### 5A2-3

11:30-11:45 (15')

#### Experiment Demonstration of IM-DD based 50-Gbps PAM4 TDM-PON Downstream Scheme Enabled by Transmitter Pre-Emphasis and MLSE

Qi Guo<sup>1</sup>, Bingchang Hua<sup>1</sup>, Cheng Ju<sup>1</sup>, Zhiguo Zhang<sup>1</sup>, Yanxu Chen<sup>1</sup>, Zhijuan Tu<sup>2</sup>, Xingang Huang<sup>2</sup>,  
Renzhong Guo<sup>3</sup>, and Qianwen Wu<sup>3</sup>

<sup>1</sup>Beijing Univ. of Posts and Telecommunications, China, <sup>2</sup>ZTE Corp., China, <sup>3</sup>Jiujiang Electric Power Supply Company, China

### 5A2-4

11:45-12:00 (15')

#### 28-Gb/s Faster-than-Nyquist PON with Optimized ISI Cancellation Algorithm

Jia Qi, Xizi Tang, Ji Zhou, Mengqi Guo, Tiantian Zhang, Shuangyue Liu, Xuekai Xu, Yueming Lu, and  
Yaojun Qiao  
Beijing Univ. of Posts and Telecommunications, China