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Special Symposium | Special Symposium | SP5 JSAP-SPIE Joint Symposium

## [17p-C104-1~9]SP5 JSAP-SPIE Joint Symposium

Takashige Omatsu(Chiba Univ.)

Sat. Mar 17, 2018 1:45 PM - 6:00 PM C104 (52-104)

△：奨励賞エントリー

▲：英語発表

▼：奨励賞エントリーかつ英語発表

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4:15 PM - 4:45 PM

### ▲[17p-C104-6]Nonlinear Optics with Structured Light

○Siddharth Ramachandran<sup>1</sup> (1.Boston Univ.)

Keywords:Nonlinear Optics, Multimode Fibers, OAM

We review recent results on the unique nonlinear optical transformations enabled by the large density of states afforded by multimode optical fibers. Specifically, we discuss the nonlinear properties for the countably infinite set of available modes in optical fibers that are, counter-intuitively, stable in the linear regime in spite of the fibers themselves being highly multimoded.