

Oral Presentation

## [PRJ2]Optical Components

Chair: Hidekazu Hatanaka (USHIO)

Co-Chair: Juiwei Pan (Chiao Tung Univ.)

Thu. Nov 28, 2019 9:00 AM - 10:20 AM Room 108 (1F)

---

10:00 AM - 10:20 AM

### [PRJ2-4]High Power Red Laser Diode for Projector Light Source

\*Masato Hagimoto<sup>1</sup>, Shintaro Miyamoto<sup>1</sup>, Yuki Kimura<sup>1</sup>, Haruki Fukai<sup>1</sup>, Manabu Hashizume<sup>1</sup>, Satoshi Kawanaka<sup>1</sup>  
(1. USHIO OPTO SEMICONDUCTORS, INC. (Japan))

Keywords:red laser, laser projector, speckle reduction, wall plug efficiency, tensile strain

*We developed 638nm and 642nm red laser diodes with 3.5W pulse / 2.4W CW operation. The 3.5W pulsed operation and wall plug efficiency of 43% are the world's highest in 638nm to the best of our knowledge. The lineups of multiple wavelengths are ideal as red light sources for projector.*