

## Supplementary Information

### **Effect of absorption recovery in bismuth-doped silica glass at 1450 nm on soliton grouping in fiber laser**

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## Supplementary Video 1

### Soliton group evolution with pump power.

The group consists of stationary solitons with fixed positions. With increasing pump power, the number of pulses and the group width gradually increase. The temporal size of the group approaches the cavity round trip period, and eventually the pulses spread over the whole cavity.