Contribution ID: **130** Type: **Talk (preferred)**

200 km-long single-ended random fiber laser and sensor with ULLF

Tuesday 13 December 2022 15:15 (15 minutes)

Record-long (200 km) single-ended random fiber laser and sensor, which can be used for safety monitoring of long-haul powerlines, are proposed and demonstrated based on combination of high-order random lasing pump and ultra-low-loss fiber, for the first time.

Author: Dr RAO, Yunjiang (UESTC)

Co-authors: Dr HAN, Bing (UESTC); Dr WU, Han (Sichuan University); Dr XU, Jiangming (UESTC); Dr MA, Lingmei (Zhejiang Laboratory); Mr DONG, Shisheng (UESTC); Mr LIU, Yang (UESTC); Prof. WANG, Zinan (UESTC)

Presenter: Dr RAO, Yunjiang (UESTC)

Session Classification: 7th International Workshop on Speciality Optical Fibres

Track Classification: WSOF: WSOF: Fibre sensors