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Switchable dual- and Single-Wavelength mode-locked bismuth-doped fiber lasers at O-band

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Abstract In this work, we have demonstrated the switchable and tunable operation of mode-locked pulses at O-band. A 40 m silica-based bismuth-doped fiber (BDF) was used to provide a high gain with low losses in the O-band regime. The carbon nanotube (CNT) was used as a mode-locker, whereas the dual- and single-wavelength mode-locked pulses were achieved by including a tunable Mach-Zehnder filter (TMZF) to the BDF laser cavity. The laser operation was switched between dual- and single-wavelength operation by tun...

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