Towards visible-wavelength passively mode-locked lasers in all-fibre format

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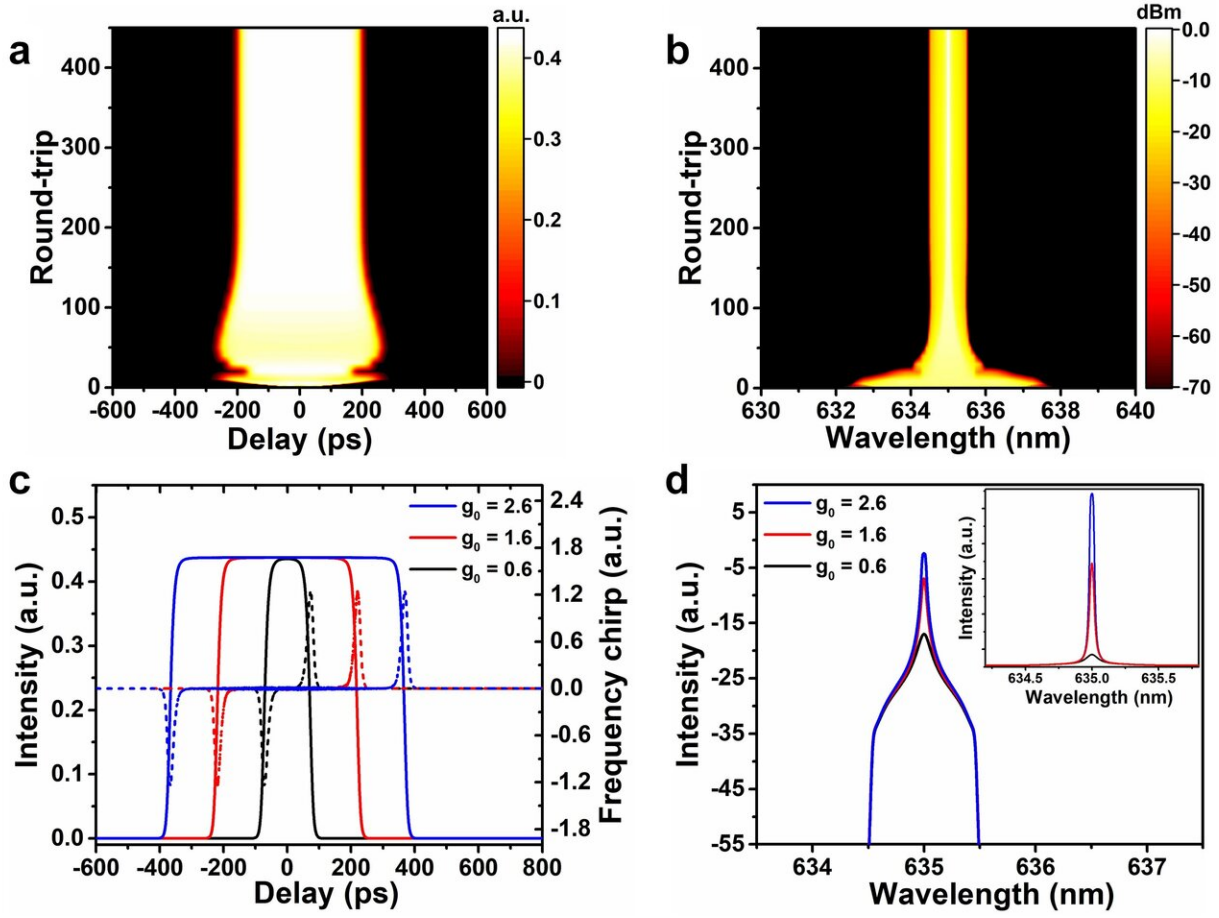

a, Pulse evolution of the 635 nm mode-locked fibre laser. The stable mode-locked pulse is built up in the cavity with increasing number of round trips. b, The corresponding spectral evolution. As the number of round trips increases, the optical spectrum becomes narrower, and the variation tendency of the spectral bandwidth is opposite to that of the pulse duration. c, Pulse temporal profiles (solid) and the corresponding frequency chirps (dashed). d, Optical

spectra of the 635 nm mode-locked fibre laser (inset: spectra on a linear scale). The spectra exhibit an ultranarrow spectral bandwidth (