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A spherical tokamak (ST) plasma is connected to the external poloidal coil flux in UTST merging device, enabling magnetic helicity injection through the current sheet with plasmoid from the coil flux into ST. Figures show (a) the experimental setup of UTST device with two pairs of PF coils, and 2-D contours of the poloidal magnetic fluxes with (b) toroidal current density  $j_t$ , (c) toroidal eigen-values  $\lambda_t$  and (d) poloidal eigen-values  $\lambda_p$ . (Takenori G WATANABE *et al.*, Plasma and Fusion Research Vol. 6, 1202131 (2011) <http://www.jspf.or.jp/PFR/>)