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The results of poloidal flux contours analyzed in the Transient Coaxial Helicity Injection (T-CHI) proposed as the non-inductive current start-up method for STs. For the T-CHI start-up plasmas on HIST, we have observed (d) the plasmoids in the elongated current sheet generated during the current ramp-up phase and (f) large closed flux surfaces during the resistive decay phase. (HANA O Takafumi *et al.*, Plasma and Fusion Research Vol. 11, 1402001 (2015) <http://www.jspf.or.jp/PFR/>)

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