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- Development of Micron-Scale Hydrogen Cluster Generation System and High-Repetitive Generation of Multi-MeV, Pure Proton Beams JINNO Satoshi, KANASAKI Masato, MATSUI Ryutaro, KISHIMOTO Yasuaki, ODA Keiji, YAMAUCHI Tomoya, UESAKA Mitsuru, KIRIYAMA Hiromitsu and FUKUDA Yuji 483

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Time evolutions of the ion temperature profiles of two merging spheromaks with opposing magnetic helicities (toroidal field): (a) positive and negative, (b) negative and positive. The merging/magnetic reconnection converts a part of the magnetic energy into the ion thermal/kinetic energy but the ion heating area: the inner-side heating or the outer-side heating depend on the polarities of opposing magnetic helicities: (a) or (b), respectively. (Kento NISHIDA *et al.*, Plasma and Fusion Research, Vol. 14, 3401145 (2019) <http://www.jspf.or.jp/>)