

Abstract Submitted
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Current filamentation model for the Weibel/Filamentation instabilities CHANG-MO RYU, CONG TUAN HUYNH, POSTECH, CHUL MIN KIM, GIST — A current filamentation model for a nonrelativistic plasma with e^+/e^- beam has been presented together with PIC simulations, which can explain the magnetic field enhancement during the Weibel/ Filamentation instabilities. This filament model assumes the Hammer-Rostoker equilibrium. In addition, this model predicts preferential acceleration/deceleration for electron-ion plasmas depending on the injected beam to be e^+/e^- .

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