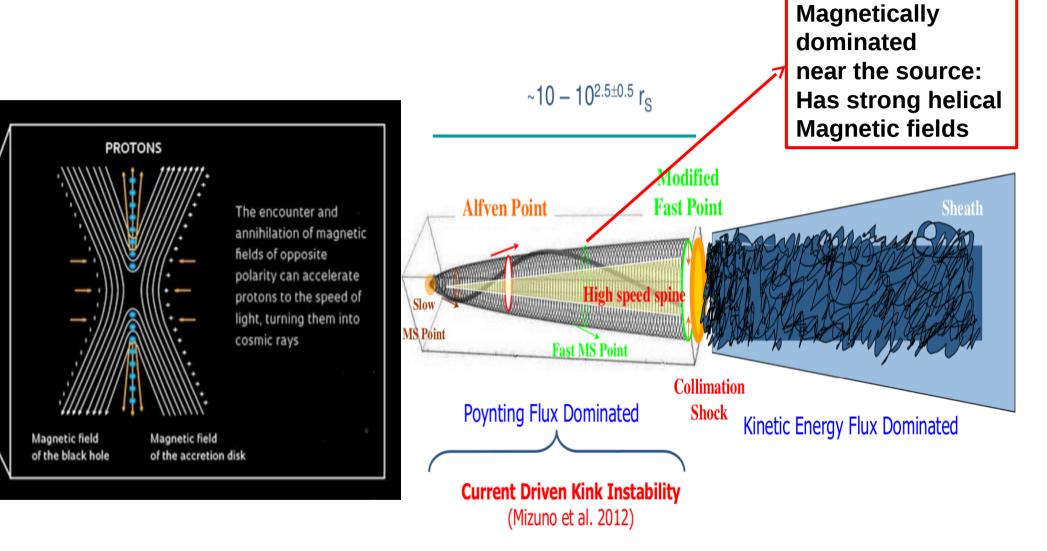
### Studies of Cosmic Ray Acceleration in Relativistic MHD Jets

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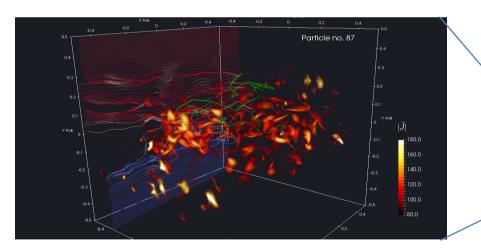
Universidade de Sao Paulo, Brazil

# Aceleration particles by magnetic reconection

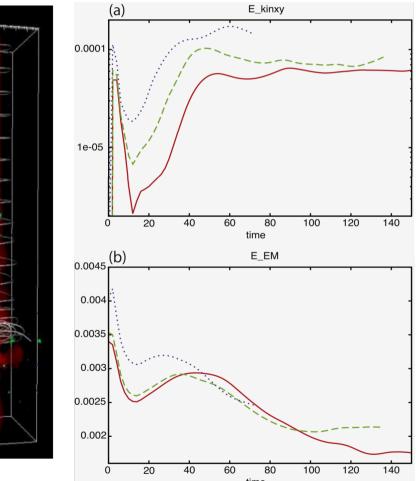


## MHD Simulation of Reconnection driven by Kink in Magnetically Dominated Relativistic Jet

Particle acceleration *in situ* in relativistic jets by means of relativistic MHD simulations with thousands of test particles in 3D: **this study is in progress!** 



del Valle, de Gouveia Dal Pino, Kowal, MNRAS 2016



Singh, Mizuno, de Gouveia Dal Pino, ApJ 2016

### **Preliminar results**

