



3D reconnection structures, topological features in kinetic reconnection

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Magnetic reconnection results in global plasma transport and global change of field topology. The problem is how to solve both microscopic physics and macroscopic physics. Macroscopic studies based on MHD have traditionally focused on advanced topological concept while microscopic kinetic processes have focused on the underlying physics processes. We plan to bridge the gap here and show fully kinetic simulations where advanced topological concepts are highlighted