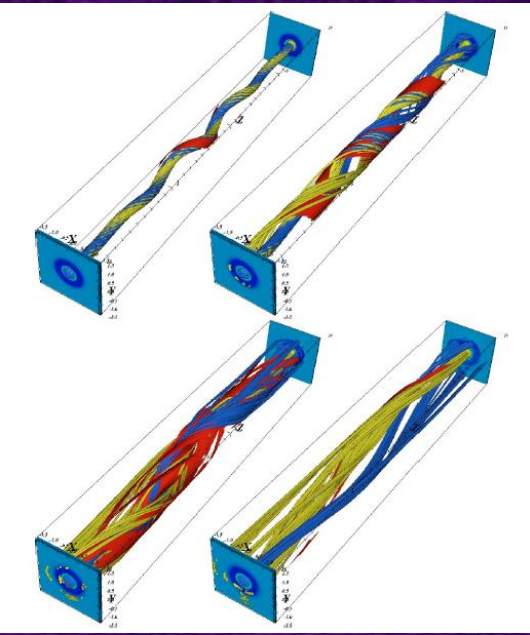
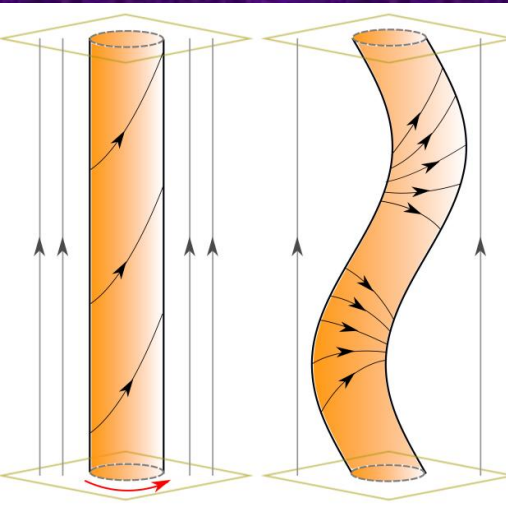
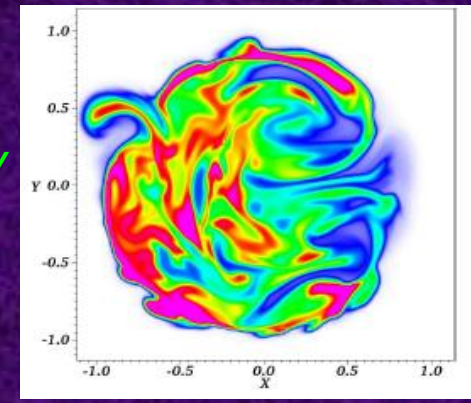


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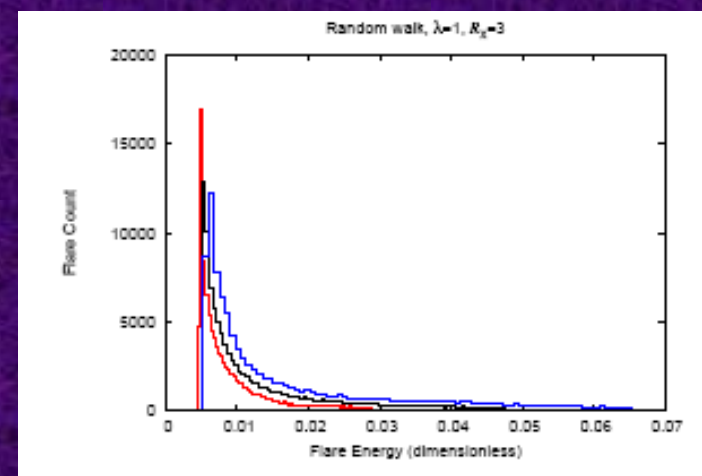
- Solar corona 1 – 2 million K (photosphere 6000 K) – why?
- Release of stored magnetic energy in many small flare-like events – nanoflares

- 3D MHD simulations
- Relaxation theory
- Monte-Carlo model generates distribution of nanoflares



Kink instability of twisted coronal loop – triggers fragmented current sheet and magnetic reconnection

Reconnection heats plasma - also accelerates charged particles



Hood et al 2009,  
 Bareford et al 2011, 2012