"Relativistic Reconnection, Shocks & Turbulence"

J.G. Kirk Particle Acceleration in Relativistic Jets

B. Reville Numerical Approaches to Particle Acceleration in Astrophysical Plasmas

R. Schlickeiser Diffusive Cosmic Ray Acceleration at Relativistic Shock Waves

M. Kadler TANAMI Blazars as Possible Sources of the IceCube PeV Neutrinos

A. Spitkovsky Injection and Acceleration in Astrophysical Shocks

M. Lemoine Particle Acceleration at Relativistic Shocks

K.-I. Nishikawa Radiation from Accel. Particles in Relativistic Jets with Shocks & Shear-flow

J. Niemiec Collisionless High Mach Number Shocks in Kinetic Simulations

H. Li Particle Acceleration in Magnetically Dominated Environment

S. Zenitani Numerical Modeling of Rel. Reconnection: Kinetic, Two-fluid, and MHD Simulations

L. Sironi Relativistic Magnetic Reconnection in Astrophysical Jets

J. Petri Explosive Reconnection of the Double Tearing Mode in Rel. Plasmas: ... Crab Nebula

M. Hoshino Collisionless Accretion Disks: Role of Reconnection in Anisotropic Plasmas

D. Uzdensky Relativistic Magnetic Reconnection in Jets: Particle Accel. and Radiation Production

J. Zrake Inverse Cascading of Magnetic Energy in Relativistic MHD Turbulence

C. Yu Relativistic Reconnection Driven Giant Flares of Soft Gamma Repeater

Summary: main statements

We are ultrarelativistic even so early in the morning.

Cen A is looking back for us !

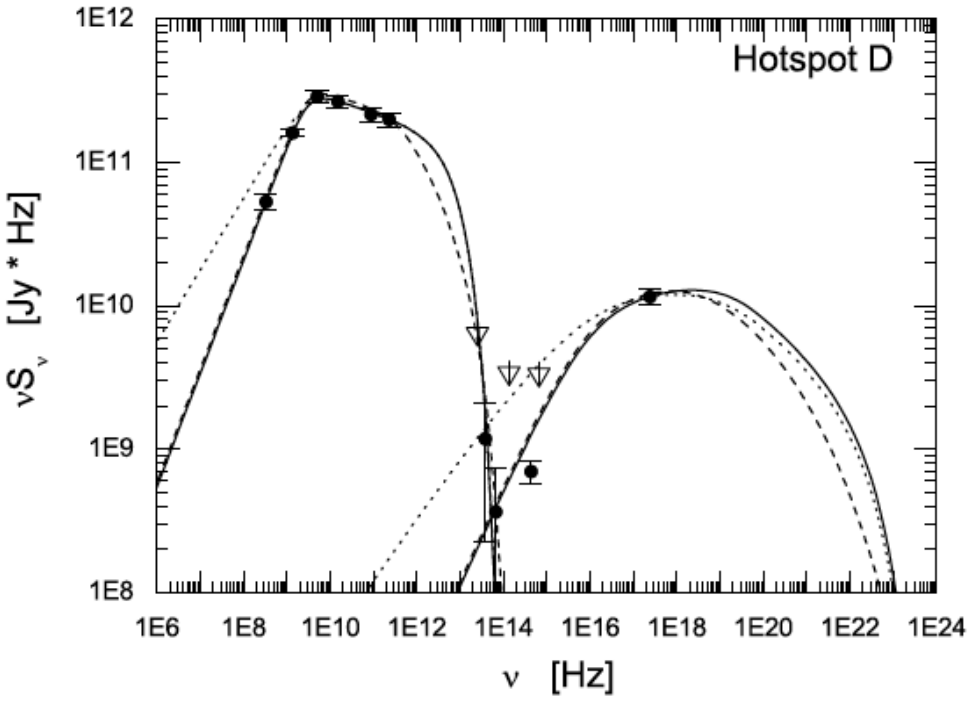
Most professional picture in the MHD reconnection industry.

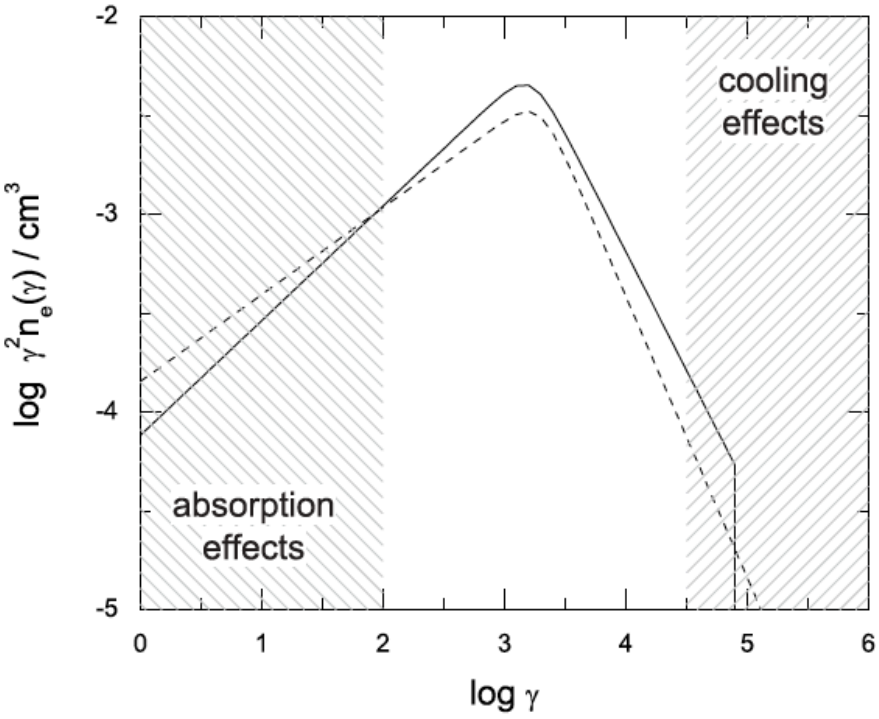
Visiting Starbucks cofeteria can easily replace lengthy PIC simulations.

Are we ultrarelativistic also in the evening ?

Check against observations in "CLEAN" cases

Cyg A hot spots





Should we consider for the particle acceleration modelling the media consisting only of CR particles and B ?

What is the role of charge separation processes in rel. plasmas / jets for particle acceleration or radiative phenomena ?