

Summary

comments from

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Summary comments

- More than 20 years ago (before Balbus and Hawley 1991), many astrophysicists **hated** magnetic field
- Astrophysicists now recognize the importance of
 - magnetic fields
 - MHD turbulence
 - Magnetic reconnection

There remains many fundamental questions

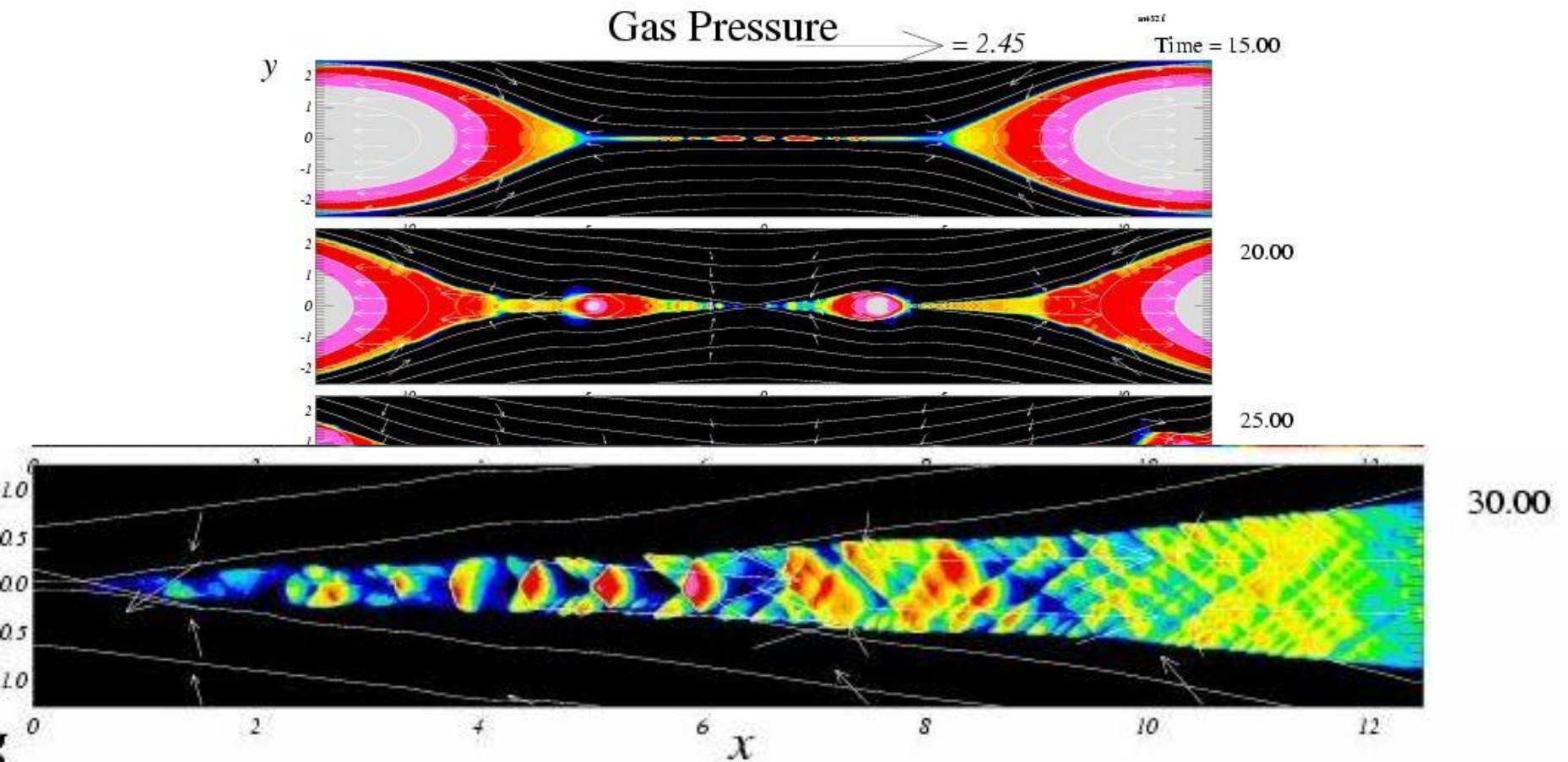
- What is the triggering mechanism of reconnection ?
- What determines the reconnection rate ?
 - Turbulence ? Fractal current sheet ?
 - Plasmoid-induced reconnection ?
- What is the particle acceleration mechanism in flares (reconnection) ?
- What Is the role of reconnection in MRI, star formation, astrophysical jets, and dynamo ?

new questions

- If the reconnection is occurring ubiquitously in turbulent interstellar medium, it may play more active role on dynamics.
 - reconnection jet might be observed in interstellar medium ?
 - Reconnection jet triggers star formation ?
 - reconnection jet leads to shocks ?

Multiple fast shocks in reconnection jet

(Tanuma and Shibata 2007, PASJ, 59, L1-L5)



The excursion was excellent
and the hardest hiking in my life !



Finally, I had a trouble on my foot,
then Heiles-san kindly carried my bag

My
bag



Thank you very much !