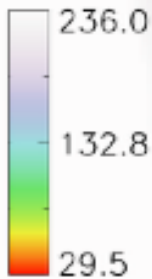


DEM χ^2



Q1

1

.

0

10

1

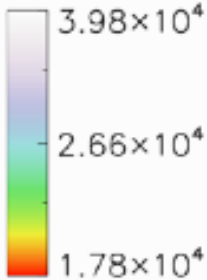
0

0

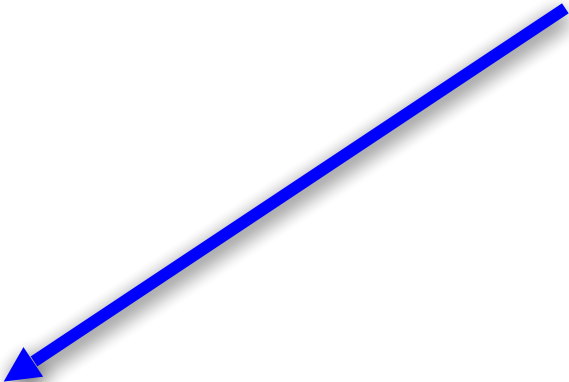


160

Intensity χ^2









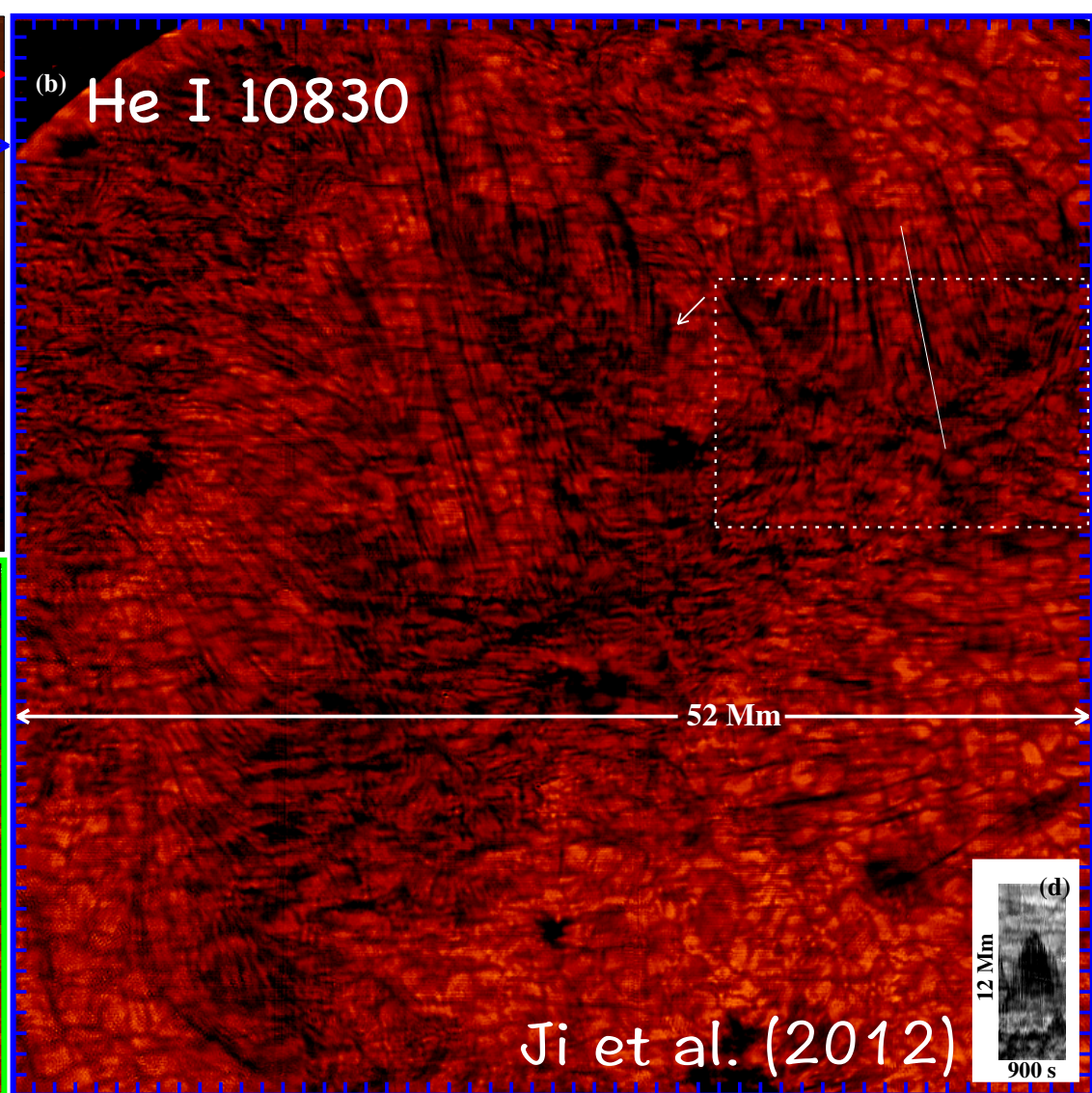
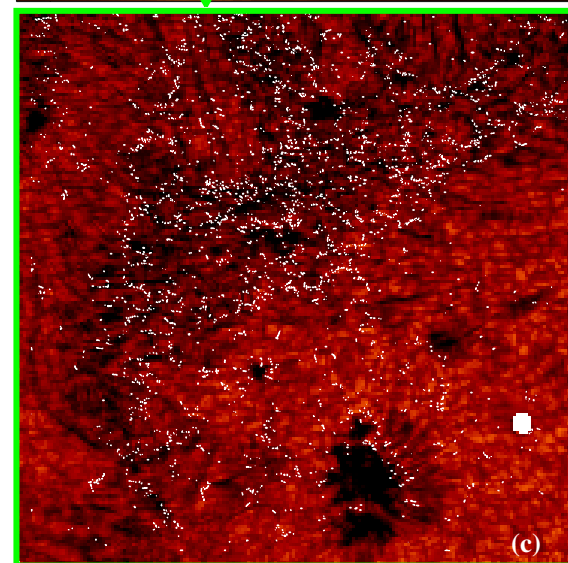
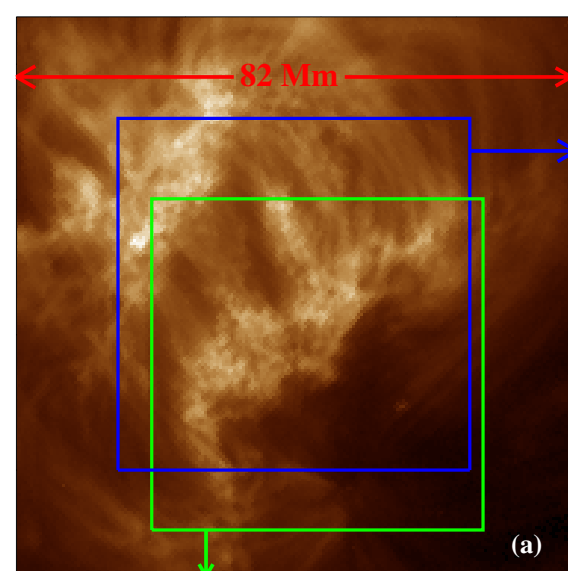
200



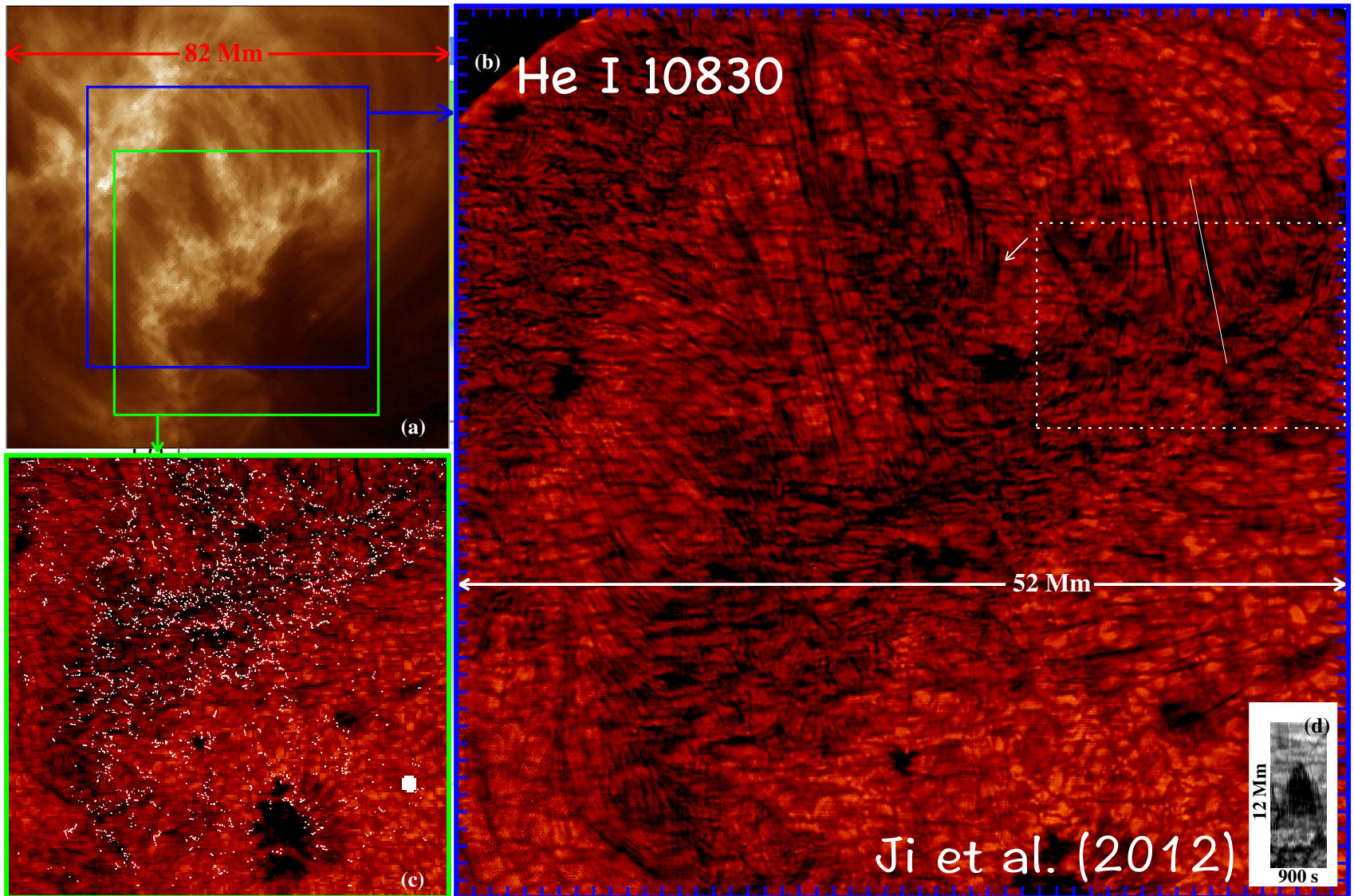


$\mathcal{L}(k, m)$

Discrepancy (χ^2) in the parameter space
between the model and observations



Discrepancy (χ^2) in the parameter space between the model and observations



Conclusion

- The scale of the cross-section of reconnected flux tube is around 160 km.
- Using the ideal of non-ideal velocity and the associated heating expression, even the equilibrium loop can fit the observations.
- Reconnection is a plausible heating mechanism to maintain the basic coronal structures.