


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.

Future Work

Harder

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- Apply this model to more ARs with different B field & V field models.
 - Using more coronal lines to constrain the the coronal thermal structure.
 - Employing a better atmosphere model, which can include the chromosphere and transition region.
 - Employing the dynamic process (if possible and necessary).