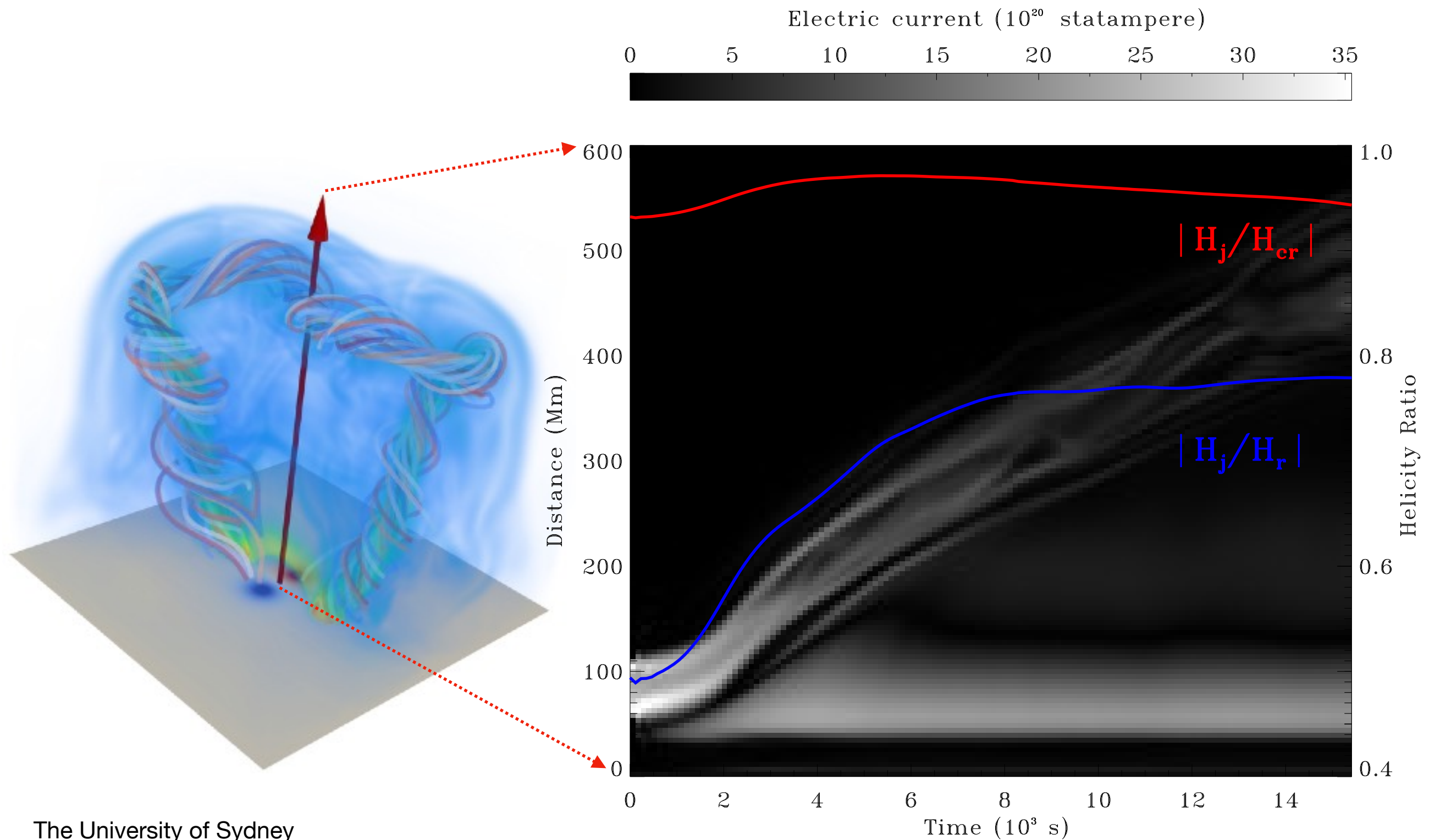


Ratio of Helicity Component



Summary

- Relative magnetic helicity is not uniquely defined.
- We adopt this new concept and the classical relative magnetic helicity on two cases.
- We introduce a new relative helicity based on the periodic potential field, which is very close to the current-carrying helicity. (both total value and HDD)
- A different behavior of helicity ratio.