Long Memory in Switchbacks

- Switchbacks are omnipresent reversals of the magnetic field that are important because they strongly affect the dynamics of the solar wind at perihelion.
- From their statistical properties only, these switchbacks are found to be:
  - multifractal (self-similar, without a typical scale)
  - deeply rooted in the corona (long memory)
  - turbulence outside of them has a more extended $1/f$ spectral range (= more pristine solar wind)

Power spectral density of $B_R$ with switchbacks and away from switchbacks.