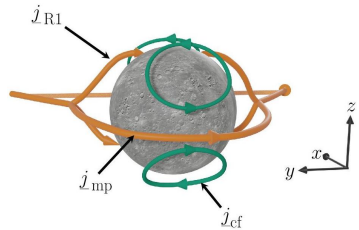


# The Mie representation for Mercury's magnetospheric currents

- Gauss-Mie representation successfully applied to reconstruct Mercury's internal magnetic field
- setup reference model: hybrid simulation of Mercury's magnetosphere
- current density crossed by the MPO spacecraft
- reconstruction from simulated magnetic field data
- good agreement between simulated and reconstructed current density

- toroidal (green) and poloidal (orange) current system:



## Related published papers:

Toepler et al. 2021a, Earth Planets Space, 73:65,  
<https://doi.org/10.1186/s40623-021-01386-4>

Toepler et al. 2021b, Earth Planets Space, 73:204,  
<https://doi.org/10.1186/s40623-021-01536-8>