

- ▶ Define permutation equivariance.
  
  
  
  
  
  
  
  
  
  
- ▶ Prove that graph filters are permutation equivariant

- ▶ Prove that GNNs are permutation equivariant

- ▶ GNNs and graph filters perform label-independent processing of graph signals. Explain formally.
  
- ▶ GNNs exploit signal symmetries. Explain formally.

- ▶ Define Lipschitz and Integral Lipschitz filters.
  
  
  
  
  
  
  
  
  
  
- ▶ Compare their properties.

- ▶ We will review the stability proof of graph filters on Friday. A group will be contacted by the instructor to prepare the meeting.