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Synchronization of a transmission line removal on power networks with positive and negative couplings

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## ACCEPTED MANUSCRIPT

## Highlights

- 1. A new power network model with positive and negative couplings is proposed
- 2. Impacts of different interactions removal on synchronization dynamics are i .ves.\_ated.
- 3. The removal of negative link enhance synchronizability of power networ
- 4. The removal of positive link has a small effect on synchronization dyna. vics.

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